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SEKERAL

# Call for Ulster firemen to quit

densy are being recommended may be irrecoverable. Back Page to resign en masse.

Delegates representing the fighters Union recognised by Page 6 the employers.

recommendation is expected to win overwhelming backing If the firemen do quit, the Army will probably take over Ulster's fire cover, using elderly Green Goddesses that were brought out of storage during the national firemen's strike inree years ago.

## Minister held

Iraqi forces have captured Mohammad Javad Tondguyan. the Iranian Oil Minister, the official news agency in Baghdad

## 'Mole' accuses

Dougal Mackenzie, the British Steel Corporation "mole" who leaked documents to Granada Television, accused BSC of provoking the national steel strike in order to speed up

## Fianna Fail split

Splits within the Irish Government party, Fianna Fail, became evident when Premier Charles Haughey denounced an attack on Mrs. Margaret Thatcher by Miss Sile De Valera, one of the party's MPs and a grand-daughter of its founder.

## **Heathrow mystery**

Airport security chiefs were trying to discover how a light ai eraft stolen in Buckinghamside managed to land un-observed at Healtstow during many France and the Nether-

Soviet seaman Boris Gavrilov. who immed ship at Leith, has been granted temporary political asylum and can stay in Britain for a year.

## Polish deadlock

Polish authorities refused to sign a communique after talks with the country's largest independent trade union, although the Premier repeated his verbal assurance that all pledges would be honoured. Page 3

## Cheap sport call

Local authorities are being asked by the Central Council for Physical Recreation to offer the unemployed, particularly voungsters, off-peak cheap rates at publicly-owned sports

## 'Goodwill' move Kuri Waldheim, the UN Secretary-General, has invited Greek and Turkish leaders to a

meting in New York this month to discuss "goodwill measures."

## 'Free prisoners'

Amnesty International, the human rights pressure group, called on Pakistan's President Zia to release all prisoners of conscience of the country and in halt torture, floggings and

## Still going strong

An 1898 Rochet Triclele was first to cross the finishing line in the annual London to Brighton veteran car rally. It took 2 hours 5 minutes.

## Briefly ....

Fire at a Polish mental hospital killed 49 patients.

Princess Michael of Kent, 34, Jrok at.

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## BUSINESS

# Big drop in Iran's UK bank deposits

London's big clearing banks have been cut by about two-thirds in the last year to £300-Part-time firemen who man all £400m. Bankers say many loans of Northern Ireland's stations are being serviced in arrears, and the Bellast and London and fear £200m in loans to Iran £400m. Bankers say many loans

• ECONOMIC growth should Delegates representing the 768 men made the call after an unsuccessful 2:-year campaign to have the Retained Fire-fighters. I have recognised by the control of the control

A ballot will take about two NORTH SEA gas gathering weeks to complete, but the pipeline costing £1.1bn could be started by a group of banks, ensuring production from British steel, Back Page; ethane route dispute. Page 4

• ICI is expected to sign a multi-million pound deal allow-ing it to sell a wide range of chemicals to the Soviet Union.

• BUILDING and civil engineering companies' overseas earnings fell 20 per cent to £1.29bn in the year to April Page 4

## Seamen claim strong support for stoppage

SEAMEN'S union claimed overwhelming support for to-day's 24-hour strike over Cunard's plans to sail some ships under flags of conven-ience. Page 8

• BL CARS' shop stewards decide today whether to recommend a strike in pursuit of a 20 per cent pay claim. The company has offered 6.8 per cent. Back and Page 7

• POWER WORKERS' shop stewards decided on a 20 per

cent pay claim. Back Page • CIVIL SERVICE unions are likely to seek a court ruling to secure Pay Research Unit comparability reports used to determine pay increases for 550,000 white collar sta: Page 8: pay-roll cuts, Page 7

lands gave support to the Dmark last week to prevent it falling outside the agreed limits of the European Monetary System. The German currency was at its lower intervention point against the French franc and Dutch guilder. Switching into dollars and sterling, attracted by high interest rates in New York and London, was behind the D-mark's weakness, coupled with Germany's large

balance of payments deficit. Belgian franc also touched its floor against the guilder and French franc on Friday, but was not under heavy pressure despité some interven tion by the Belgian National Bank The Italian lira remained the weakest member of the system, although well within its extended divergence limit. The French franc was the firmes member of the EMS earlier in the week, but was overtaken by

the guilder on Thursday.

# EMS october 31,1980 GRID 15% -10 2 -**ECU** Divergence

is expecting her second haby fascen the line) may move more then fascen the line) may move more then gives in April.

East Germany and Zimbahwe "central rate" against the European Currency Unit (ECU), inself a basket established diplomatic relations, of European currencies.

(£21.5m-£43m).

vise certain bank-uptcy. Although the banks agreed to they refused to put any new loans into Chrysler. Several

bankers say they see no chance of Chrysler Financial raising new loans now. "actively negotiating" in the summer which precipitated the raise the funds it needs to avoid

was passed by the Mailis yester-day. "All we've got are unofficial reports," he said. An official version of the Iranian demands in Farsi to intervene in any way in Iranian affairs, to unlock frozen (Persian) and English is being Iranian assets, drop other forms drawn up in Tehran. Some aspects of the terms as released claims and return the assets of by the official Iranian news agency are still unclear. It appears that the release of the hostages may be closely tied to the pace at which the U.S.

President considers

Tehran's conditions

for freeing hostages

obvious gravity of the situation

consideration by the President,"

Lafer, in a television inter-

impasse with Iran. But he noted

that the official Iranian position

apparently due to be clarified

in a Covernment statement

today could vary from what

requires deliberate and careful issue settled.

BY JUREK MARTIN IN WASHINGTON AND PATRICK COCKBURN LONDON

Mr. Powell said.

PRESIDENT Jimmy Carter needed more "information"

The Majlis, Iran's parliament, view, Mr. Muskie reiterated U.S. finally decided to reaffirm willingness to end the year-long

morrow's election and returned Iranian conditions.

to the White House yesterday to

consider the terms agreed by the Iranian Parliament for the

release of 52 U.S. diplomats held

iostage in Iran for the last year.

officially an expanded version of

the four conditions originally mentioned by the Ayatollah Khomeini. the country's

revolutionary leader, at the beginning of September.

Government should promise not

These are that the U.S.

economic action and legal

Government fulfils the Iranian

Mr. Carter convened a morn-

ing session with Mr. Walter

Mondale, the vice-president, Dr.

Zbigniew Brzezinski, the national

security adviser, and Mr.

Edmund Muskie, the secretary of

the Shah and his family:

demands.

state.

The fact that the deputies did not in the event add anything to the conditions for release which the Ayatollah Khomeini

1.-A promise by the U.S.

tranian control. Iran and the cancellation of

Continued on Back Page

Carter may find demands hard to meet. Page 2

"In case the fulfilment of

"given the acceptance of

## IRAN'S TERMS FOR RELEASE

Government not to intervene politically or militarily in

After the morzing meeting 2.—Untreezing of all Iranian Mr. Jody Powell, the Press Secretary, said the President assets inside and outside the U.S. and their return to 3.—An end to all "economic and financial" actions against all legal claims against Iran. 4.-The return of the Shah's

# Healey and Foot prepare for close second ballot

BY ELINOR GOODMAN, LOBBY CORRESPONDENT

THE LABOUR leadership con- John Silkin, declare their pertest may well develop by the sonal support for him. end of the week into a fight

aiready preparing their tactics for the second ballot on the assumption that the result of the first hallot, to be announced tomorrow, will be inconclusive.

Both sides agreed that the final ballot could be decided by only a bandful of votes. Mr. Healey was still just hanging on to his position as favourite but, as the count for secondchoice votes began, supporters of Mr. Foot claimed to be making ground.

Mr. Foot's campaign will almost certainly get a boost tomorrow night as soon as the results are announced when Mr. Peter Shore, together probably

Neither Mr. Siller nor Co. MPs in the Centre of the party.

Yesterday the campaign can guarantee that all their followers will heed their advice contenders. Mr. Denis Healey but their declarations of support and Mr. Michael Foot, were for Mr. Foot will emphasise the task facing Mr. Healey in the second round, Both Mr. Healey and Mr. Foot, along with their respec-

tive campaign managers, were still said to favour a clean fight. But with both camps fight. predicting a very close final ballot, there were signs yesterday that some of the most committed supporters might spend as much time this week stressing the negative side of their opponents as pointing to the positive attractions of their own candidate.

In the background of this will he discussions about how best to implement the decision of

leader. At tonight's meeting . Shadow Cabinet, some members may take the oppor-tunity to raise the question of whe her the existing voting strengths at the conference reflect the structure of the party. on these proportions when constructing a new system of electing the leader. The view in both leading

the system of electing the party

camps yesterday was that Mr. will have a clear lead in the first round over Mr. Foot but that he will almost certainly not get an overall majority. With well over half the votes already cast, the most commonly accepted prediction yesterday was that Mr. Healey would get between 110 and 120 and Mr. Foot S0 to 90.

For the second ballot, the should pick up more of Mr.

## general view is that Mr. Healey Shore's votes than will Mr.

# narrow lead to Carter

By Jurek Martin, U.S. Editor, in

THE FINAL round of public PRESIDENT Jimmy Carter needed more "information" had announced was taken in broke off campaigning for to- before making a decision on the Tehran as an indication that the apinion polls before tomorrow's Presidential election suggest Government of Prime Minister that President Jimmy Carter can afford to lose hardly any of the big, marginal states if he is to stay in the White House Nevertheless, the parliamentary commission which has for another four years.

drawn up the terms under The surveys do not, and can which the hostages will be released said the U.S. must not only accept but must act to not take account of what public reaction will be to the possible release of the U.S. carry out the conditions before diplomatic hostages from Iran. the hostages are released. This This new and real factor in could lead to a phased release. tomorrow's voting, could benefit Mr. Carter, But it could also some of the conditions needs more time," the commission help Mr. Ronald Reagan if people believe that the President has manipulated the all the conditions by the American Government, in plight of the hostages to his

own political end. exchange for the fulfilment of Two of this weekend's polls each condition some of these offenders (hosfages) will be show Mr. Carter retaining the narrowest of leads in broad released as decided by the (Iranian) Government." popular sentiment.

A Gallup poll for Newsweek Mr. Muskie emphasised his magazine puts him ahead by 4I to 44 per cent but qualifies this finding with the stipulation that if the poll is limited to those most likely to vote. Mr. Reagan holds a one-point edge, 44 to 43 per cent.

The Sindlinger poll gives Mr.

Carter the edge by less than
one half of one per cent.

The election, however, is
determined not by the mathematics.

vote but by the mathematics of the Electoral College: Whoever wins a given State gets all that State's votes in the college, ranging from the 45 for California down to three for the five smallest states. There are a total of 538 electoral college votes, meaning that 270 are needed to become the next President. In this context, the New York

Times survey gives Mr. Reagan 98 solid votes, with another 137 leaning in his direction. Mr. Carter is given 89 certains and 56 probable States with a total of 158 votes. The Washington Post state-

state poll gives Mr. Reagan 22 states and 207 electoral votes. and Mr. Carter 15 states plus the District of Columbia, worth 163 votes. The remaining 168 Of particular concern to Mr

Carter is the fact that his Southern base no longer seems Surveys find him in secure. danger of losing Virginia, South Carolina, Alabama, Florida, Mississioni. Louisiana, and most important, in Texas. Mr. Reagan, however seems

likely to capture most states in the Western half of the country. The one niggling doubt con-cerns his home state of California.

# Polls give Forecasters take gloomy view of next 12 months

BY PETER RIDDELL. ECONOMICS CORRESPONDENT

12 months of falling output and profits and sharply rising un-employment, but from 1982 onshould be significantly better. the London Business School predicts this morning.

The Business School believes that, provided the monetary and public spending targets are met. the annual rate of consumer price inflation should decline to single figures by the end of next year and remain there, while from 1982-83 on there should be scope for income tax cuts.

Unemployment is, however, likely to continue to rise, though at a much slower rate than at present.

This gloomy view of the immediate outlook is shared by most other forecasters and is supported by the latest Financial Times business opinion survey, also published this morning.

The opinion survey - this month covering the nonelectrical engineering, chemical and oil, and transport sectors -reports a sharp drop in new orders and recent deliveries. But industry appears to be having some success in reducing levels of stocks and a few

of the individual comments

BRITAIN faces another bleak reveal a feeling that the recession may soon reach bottom. The one clear positive point is the further revision downwards by companies of expectations about cost and price increases over the next 12 months.

Greater optimism about inflation in business opinion surveys and economic forecasts is probably the only comforting shortterm factor for the Govern-

There is, for example, agrecment about the worsening prospects for public sector borrow-ing. But there is considerable dispute among the pundits about the extent of the problem, and hence about the size of any offsetting public spending changes and tax increases.
The Business School esti-

mates that, on the basis of unchanged policies, public sector borrowing will be about £9!bn 1981-82, which will make achievement of the monetary target extremely difficult. In contrast, stockbrokers Phillips and Drew believe that borrowing could reach £12bn in 1981even with £2bn of public spending cuts and a mildly deflationary Budget next spring. Continued on Back Page

FT Business Opinion Survey. Page 12

## Government accepts need for a higher deficit

BY SAMUEL BRITTAN

THE GOVERNMENT accepts that public-sector borrowing will be higher in the next fiscal year than originally intended because the recession is proving severer than expected.

The Medium-Term Financial Strategy published at the time of the Morch Budger gave a PSBR target for next year of 37 per cent of the Gross Domestic Product. This would mean about £7¦hn compared with a target of £82bn for I-81, itself almost certain to be exceeded.

The exact size of next year's PSBR compatible with the financial strategy is still under debate. Independent economic forecasters give a range of £9hn to £12bn. The intention is to allow tax revenue to fall short of the

target while maintaining the public expenditure objectives set out in the last White

ing cuts which the Treasury

The nursose of the spend-

is asking departments to make is simply to bring total public . spending back on the course set in the March White Paper. Some industrial programmes, including nationalised industry deficits, have overrun because of the recession: There is also need to make

room for an employment package. Other threatened spending increases, as is defence, are self-propelling. A further squeeze on public spending via eash limits is also likely to be required if the Government is to meet even its enlarged PSBR

targets without jucreasing the burden of tax. Sir Geoffrey Howe suggested that public-sector wage pay-ments should not rise by more than the 6 to 10 per cent of the monetary target for next year, and he is likely to be advised to aim for the lower end of this range.

Lombard: Geoffrey's need to make haste, Page 14

## with the other runner-up Mr. the party conference to change Foot. Energy pricing changes planned

BY SUE CAMERON AND JOHN ELLIOTT

CHANGES IN its energy-pricing the hest load factors and policy are being prepared by the Government to placate manufacturers who say they are forced to pay more than foreign competitors for oil, gas and

The Government is thought to be considering three measures: financial year to prevent energy prices rising even faster than expected-costs of gas, coal and electricity would not decrease;

asking oil companies to explain why heavy fuel-oil is more expensive in the UK than in other European countries; and, encouraging electricity boards to give their industrial cheapest tariffs. Electricity boards are already expected to advise manufacturers on pricing but the law

dictates that they must not give "undue preference" to any one group of customers. It is believed the Government · Easing cash limits set for had been thinking of easing nationalised coal gas and electricity industries for the next city industry in the current city industry in the current financial year. But it appears

the industry will manage keep within its cash limits for 1980-81 because of reduced inflation rates. The plans mark a small step hack by the Government which

Confederation of British Industry completes a wideranging international study of relative energy prices.

The CBI had hoped to present the findings of this study to its annual conference next Monday. But it is understood the findings will not be ready.

Representatives from the CBI, including Sir Terence Beckett, director general, called on Mr. David Howell. Energy Secretary, on Friday for an informal meeting. They told him the study's preliminary results confirmed that British industry was bearing unfairly high energy to foreign compared costs

has maintained a tough line on competitors. energy pricing in spite of in. The CBI leaders expect to see creasing pressure from industry. Mr. Howell again when the The pressures on Ministers to study is completed, probably in customers more help in deciding give manufacturers help with about a fortnight's time.

# Chrysler Financial asks for loan

energy pricing in spite of in-

BY IAN HARGREAVES IN NEW YORK

dealer and retail financing arm expressed of the Chrysler Motor Company, additional \$50m loan. has asked its European banks to lend it an additional \$50m-\$100m

The request, which has taken lenders in the U.S. and Europe by surprise, is seen by some as a demand strengthens for the American Motors, the smallest of breach of the terms of the company's products. \$1.5bn U.S. Government rescue programme which earlier this year saved Chrysler from other-

Chrysler confirmed that it is European market for an infusion of \$50m, although financial interest

needs cash urgently to allow it of Chrysler Financial. to provide loans to Chrysler's dealers

Because of Chrysler's still to be interested in taking such precarious financial condition, a stake. Household Finance, the the company is not able to large U.S. finance company, has borrow money in the usual way, also shown interest in the past. favoured by large industrial many concessions in this rescue, finance companies, on the commercial paper market. It is Financial might regain its comforced to try to raise more mercial paper rating and the expensive funds through its banks.

> It was the loss of Chrysler's commercial paper rating last company's crisis The situation is also compli- to make loans.

CHRYSLER FINANCIAL, the sources say the company also cated because under the terms Government-backed in an of the rescue deal Chrysler is supposed Chrysler Financial, which is to use its best endeavours to an unconsolidated subsidiary, find a purchaser for 51 per cent

> Renault of France, which is and customers as the largest shareholder in the U.S. car-makers, is still said If the stake could be sold to

a sound company Chrysler problem would be solved. that does not happen, it is impossible to say at this stage a gradual decline in its ability

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## Fraser announces Government changes

By Patricia Newby in Canberra

MR MALCOLM FRASER, Australia's Prime Minister, vesterday announced a major reshuffle of his government after his win in the federal election on October 18.

Mr. Fraser's Liberal-National Country Party coalition has a 23-scal majority in the 125-seat House of Representatives.

Mr. Andrew Peacock, Foreign Minister for the past five years becomes Minister for Industrial Relations and Mr. Tony Street, the former Industrial Relations Minister takes over foreign

In other changes, Mr. Vic Garland, former Minister for Business and Consumer Affairs, the U.S. has been appointed High Commissioner in London

Mr. Peacock has indicated for some time that he would like a domestic pertiolie. Successful handling of such a tricky ministry as industrial relations would certainly enhance his chance of inheriting the leadership of the Liberal Party

beaten last week for the deputy leadership by the incumbent. Mr. Phillip Lynch, the Industry and Commerce Minister, he is still considered a possible threat to Mr. Fraser.

helieve that Mr. Lynch has risen as far as he is likely to of the hostages to secure their and that the next challenge for positions. the deputy leadership will see either Mr. Peacock or Mr. John to advocate any agreement with Howard, the Treasurer emerge victorious. Both men are 41.

(Business and Consumer Affairs); Mr. Michael Hodgman

Patrick Cockburn examines the pressures behind Iran's move on the U.S. hostages

# The Majlis finally takes Khomeini's cue

BY DECIDING on the terms under which the 52 U.S. hostages will be released, the Iranian Majlis (parliament) has finally followed Ayatollah Khomenii's directive earlier in the year that it alone should deal with the fate of the hostages.

But it is unlikely that yesterday's proposals (see box) would have emerged without pressure from Avatollah Khomeini's office and a change of attitude by the fundamentalist Islamic Republican Party (IRP) which claims a majority in the Majlis. The proposals now put to the U.S. are virtually the same as those proposed by Ayatollah Khomeini on September 12. This allowed the IRP and other deputies to make relatively

While U.S. diplomats have continually complained that they have never been sure who had sufficient power in Iran to

deliver the goods, yesterday's events show that the IRP does have such strength. from Mr. Fraser.
Although Mr. Peacock was them had used the hostage issue to rise to power. The takeover of the embassy destroved the Government of Mr. Mehdi Bazargan. Iranian Presi-dent Abolhassan Bani-Sadr and

> This made it difficult for them Washington and President Bani-Sadr badly damaged his

the clerical fundamentalists of

the IRP used the renewed mili-

tancy which followed the taking

New ministers are Senator authority when he attempted Peter Baume (Aboriginal to do so in February.

Affairs). Mr. John Moore (Business and Consumer end of July removed the most end of July removed the most emotive demand of the militant (Capital Territory), Mr. Tom students who had distributed the called for a midnight rally to McVeigh (Housing and Construction) and Senator Tony wake of the abortive raid by students arrested in Washington, Messner (Veterans Affairs).

**BEIRUT**—The following is the English-language text of a list of conditions debated yesterday by the Iranian Majils for the release of the 52 U.S. hostages in Iran. The list was distributed by Iran's Pars

news agency. The Islamic consultative assembly, the Majlis, met this morning. The special commission on the hostages submit-ted their report to the Majlis. This report is based upon the proposals made by the Imam (Ayatollalı Khomeini) on the subject of hostages. The proposais are as follows:

"1.—Due to the interference of the U.S. in the internal affairs of Iran, political, military, economic, the U.S. must now make a firm commitment to avoid all direct or indirect political and military inter-

Ayatollah Khomeini . . .

But even then the students

still dominant

could still count on significant popular support. When they

ference into the affairs of the Islamic Republic of Iran.

"2.—Unfreezing all Iranian assets in and outside the U.S. These assets should be put at the disposal of the Iranian Government, in order that we may utilise them in every possible way. The presidential order of November 14, 1979. which blocks our assets should be declared null and void by presidential order. Financial relations would continue as before this presidential order, with the removal of economie blocks and all con-sequent effects. All legal pro-cedures must be taken to yold the presidential order concerning the confiscation of Iranian properties by the U.S. courts. Guarantee the security and free transfer of these pro-perties must be made. No

gathered outside the U.S. embassy. Only the beginning of the war with Iraq forced them

. The retention of the political

initiative by the militant students was partly a result of the division of authority in Iran

between different power centres.

The President and the IRP were

at one stage unable to agree a

prime minister or a cabinet. Only when the Premier, Moham-ined Ali Rajai, was elected.

did the fundamentalist clerical leaders feel strong enough to tackle the bostage issue.

They are aware now that the

hostage issue, so useful to them in the past, could be used by their enemics. The appearance of Ayatoliah Khaikali, Iran's

hanging judge, made good tele-

vision when he was seen last week, bereft of turban at the

rostrum in the Majlis building.

denouncing deputies who had

boycotted the debate on the

hostages' release.

into the political background.

private U.S. citizen or resident of the U.S. may make a claim against these properties.

"3-Cancellation and annulment of economic and financial actions and measures against the Islamic Republic of Iran must be made. Legal procedures should be implemented to cancel and annul all claims against Iran. These claims might be presented by an official or unofficial citizen. an American company or the American Government. In the case of any type of claim made against Iran or any Iranian citizen, in any court of the United States in connection with the Islamic Revolution of Iran and the seizure of the nest of sples (U.S. embassy) and the arrest of U.S. eltizens in Iran, the U.S.

Government should guarantee to answer and pay any consequent damage or expenses caused by the conviction of Iran or any Iranian citizen.

4—The properties of the deceased Shah must be returned. The United States Government should officially recognise the right of the Iranian Government to the deceased Shah's wealth and that of his close relatives. According to Iranian law, these properties belong to the Iranian nation and Iran should be able to control them. The President of the U.S. should issue a proc lamation to this effect, and take all legal and adminis-trative actions necessary to transfer these properties to

Ayatollah Beheshti . . .

the studied moderation of IRP leaders such as Ayatollah Behesti, the speaker of the Majlis, Hojatoleslam Hashemi Rafsanjani, and Mr. Hassan Ayat, none of whose names But more important has been excite much interest in the

Why have they moved so quickly now?

Iranian war effort, though it is clearly possible that Iranian politicians and generals will think that it will.

The crucial problem which President Carter will have most difficulty in resolving is that of the Shah's fortune and the frozen Iranian assets in the U.S. Popular feeling in Iran is that the Shah and his family salted away much of Iran's wealth.

Ordinary Iranians mention a figure of \$32bn or more and it will be difficult for political leaders in Tehran to explain to them that not only are they not going to get any of this but that the assets which the U.S. Government admits belongs to Iran will be difficult to extract from a tangle of legal claims

and court proceedings.

This puts the leading clerical figures in the IRP in a difficult Having publicly associated themselves with pushing through the Majlis the conditions under which the hostages will be released, they are politically vulnerable in Tehran if they cannot soon show that they have got most of what

they asked for.

The final resolution of the

The war with Iraq certainly gave much of the leadership in Tehran a sense of their own isolation. It is doubtful that the delivery of U.S. spare parts will make much difference to the

hostage crisis may once again require the intervention of Ayatollah Khomeini

# Carter may find Iran's demands hard to meet

BY JUREK MARTIN, U.S. EDIFOR IN WASHINGTON

PRESIDENT JIMMY CARTER can meet only one of the four demands for the release of the U.S. diplomatic hostages, laid down by the Majks without difficulty or delay. Fulfilment of the other three is neither practically nor legally straightfor-ward and may require some understanding on the part of

the Iranian authorities.

Clearly no problems exist in the President pledging non-interference in Iranian internal affairs. With the stroke of a pen he could unfreeze the estimated \$8bn worth of Iranian assets he locked up nearly a year ago by Presidential flat. but the swift return of anything like the full amount to Iran is almost certain to be mired in a

profusion of legal claims. Locating and releasing the assets of the Shah and his close relatives is no easy matter either. While President Carter is able to cancel the trade embargo he imposed on Iran, he has no authority to deal with the second part of the demand, to

No precise inventory has been drawn up of the disposition of the Shah's assets, though rough estimates could be quickly obtained. Mr. Edmund Muskie, the

Secretary of State, stressed in a TV interview yesterday that it was still not clear exactly what Iran was asking for. On the question of the Shah's assets, for example, he said it was not known whether Iran was demanding "confiscation" or simply "identification"—implying, of course, that the latter

was much easier to meet.
But he repeated what he has said many times before: "If they undo what they did, we'll undo what we did in the freezing of assets, the imposition of trade sanctions and the condemnation of the hostage taking in every possible international forum. U.S. officials were, however,

mination of the hard-line offensive weaponry.



President Carter . . authority limited

Islamic Republican Party to at least get negotiations in train before the U.S. Presidential elections fomorrow is one positive harbinger.

In a TV interview yesterday. stop private lawsuits against Mr. Sadeq Qotbzadeh, the Iran II, as is widely assumed, former Foreign Minister, also the Shah's wealth has been intimated that Iran was prewidely dispersed around the world, the President has no points. Although he speaks with no authority these days, the U.S. hopes that the familiarity of Mr. Qorbzadeh and others with the U.S. legal and constitutional system may have filtered down to those in Iran who had pre-

viously been uncompromising. - There is, however, great relucaspect of any deal with Irantance here to discuss another aspect of any deal with Iranthe possibility raised by the
Majlis that the hostages would
only be freed in groups, the
release of each group being
contingent on U.S. compliance
with each of Iran's terms.

At a Press conference on
Saturday, Mr. Muskie was at
pains to suggest that the actual
negotiations with Iran could
take some time.

take some time.
One key element in such bar-

gaining is the military com-ponent of the frozen Iranian assets. The U.S. is clearly unwilling to be seen to "tilt" too sharphy to Iran in its present condict with Iraq. It would predrawing some encouragement fer not to release all the \$500m from the signs from Tehran that worth of spare parts and equip-Iran wants to move to settle ment at once, but only to agree Iran wants to move to settle ment at once, but only to agree the hostages issue. The deter- to ship the least sophisticated

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## American countries to Israel to that the U.S. State Department study the purchase of the Kfir had given Israel permission to combat aircraft now that the offer the Kfir to Mexico, which U.S. has lifted its four-year ban is also considering, the U.S. on sales of the aircraft to Latin made F-5E fighter. There have also been unconfirmed reports.

Israel is planning to invite America.

Mugabe threat to expropriate white land

By Our Salisbury Correspondent

ZIMBABWE'S frustration at what it considers disappointingly low levels of international aid from Western countries has surfaced with a reported threat by Mr. Robert Mugabe, the prime minister, to expropriate white farm land without compensation.

Mr. Mugabe was said to have made the threat when he addressed a meeting of black tribesmen in the Mount Darwin area of north-east Zimbabwe. He accused Britain of failing to meet its pre-independence promises to provide funds to compensate white farmers for any of their land taken over. He said his government wanted farmers to surrender some of their land and would have to look to Britain for compensation "because we have no money to pay them and do not feel inclined to pay for land plundered from indigenous people by

colonisers. Although the government has started on its own programme of land re-distribution and resettlement using its own funds as well as aid from overseas, expectations of more and petter land are high among the rural

Last month it was announced that £20m of the British aid package of £75m would be ear-marked to purchase 1.1m hectares of land and re-settle 18,000 families, but officials stress that this is only scratch-

ing the surface.

Meanwhile, relations between the Nkomo and Muggbe wings of the governing coalition worsened again with the Prime Minister's accusation that it was Mr. Nkomo's ZIPRA guerrillas who were responsible for last week's outbreak of violence at the north-eastern town of Mtoko and in the Salisbury suburb of Chitungwiza.

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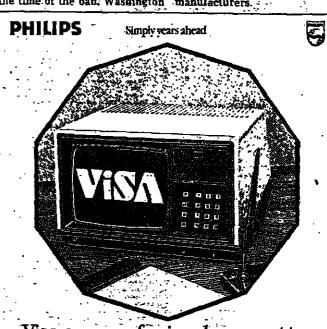
## Israel plans warplane sales to Mexico BY DAVID LENNON IN TEL AVIV.

-- said it opposed the re-export of Last week, it was revealed sophisticated that Columbia is interested in-the Israeli alreraft.

The American veto derived from the fact that the Kfir is expose potential customers to powered by the U.S. made counter pressure from Arab General Electric J.79 engine. At states and U.S. aircraft the time of the ban, Washington manufacturers.

technology to Latin America.

The American change of heart "could open big horizons" for Israel's defence industries, according to Mr. Mordechai Zippori, the deputy Defence Minister - Israel is, however, concerned that the publicity given to the decision could



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Value of

overseas

work falls

A BIG FALL in the value of

overseas work being done by

UK contractors is revealed in

figures released by the Depart-

The figures reflect the grow-

ing difficulties encountered by

British building and civil en-

gineering companies in finding

foreign contracts and come at a

time when their domestic work-

load has reached one of its

lowest ebbs in post-war years.
According to the DoE, the

current price value of overseas projects carried out during the 12 months to the end of last

April was £1.29bn, a fail of 20

per cent from the previous

At the sime time, the current

year's level.

ment of the Environment.

contractors'

These Bonds having been sold, this announcement appears as a matter of record only.



- October 1980

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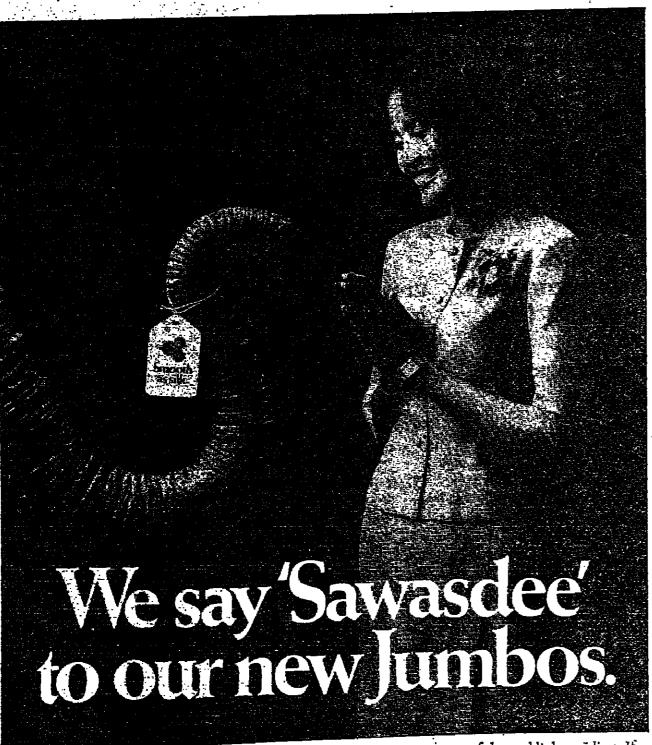
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## **UK NEWS**

# Prior must act in training boards finance deadlock

BY ALAN PIKE

THE Manpower Services Com- year. mission has been unable to become responsible for financing idustrial training boards. Proposals to transfer the cost

to industry are at the heart of widespread examination of the 1973 Employment and Training Act carried out earlier this year by a review body of the Commission.

Arguments

But as a result of disagreement between TUC and Confederation of British Industry representatives, the commission will now have to report to Mr. James Prior, the Employment Secretary, that it has no agreed riew on the issue.

training boards, would currently ing.

training boards, would currently ing.

tost industry an extra £51m a

The TUC, however, strongly paying for them.

THE ENGINEERING Em-

ployers' Federation is sup-

porting the Confederation of

British Industry's opposition to employers bearing the cost

of industrial training boards.

The federation, in evidence

published today, says: "The imposition of an additional

cost burden on employers in

the present economic condi-

In its response to the Man-

power Services Commission

report, which proposes the

change, the Federation also

opposes a recommendation

that the existing 1 per cent

statutory limit on the levies

which training boards can

tions is quite unacceptable."

they appreciated the "logic and by 1985.

arguments." It has become apparent from absence of an agreed view, the responses to the report, however, that there is widespread hostility to the plan among

Many employers have argued that, with industry under severe. pressure from the recession, it cannot be expected to carry any extra burden at present.

## Welcome

to the present system of Government funding, with companies becoming responsible for the bulk of the costs of the 24 to the costs of the costs of the 24 to the costs of the 24 to the costs of the costs of the 24 to the costs of the costs of the 24 to the costs of the 24 to the costs of the costs of the 24 to the costs of the costs of the 24 to the costs of the

Engineering employers resist

'unacceptable' training costs

impose, should be lifted.

If has told the commission

and Mr. James Prior, Employ-

ment Secretary, that there

should be an examination of

the scope for reducing the

"The present arrangements tend to cause duplication of

administrative and training

would eliminate waste, pro-

vide savings and reduce

ing companies with their own well established training

systems believe that the

Engineering Industry Train-

ing Board is unnecessary, the

federation's evidence says

While some large engineer-

A slimmer structure

number of training boards.

supports the financing of train-CBI representatives on the ing boards by industry. In an reach agreement on whether review body reserved their posi-industry should in future tion on the recommendation agreement with the CBI, it that industry should fund the offered to accept a phased transboards, although the report said fer of funding to be completed

It is expected that, in the commission will outline the positions of both sides of industry to Mr. Prior, with whom final decisions on the report will

Legislation would be required to change the method of funding the boards which, under the 1964 Industrial Training Act, were originally financed by

industry. There are also fears that if companies were forced to Government — apart from melcoming the public spending

the general view is that it should be retained and

should concentrate on practi-

cal training matters. However, there should be an

independent investigation into methods of funding the board,

and increased employer representation on it.

that its recommended changes

in the recommended changes

training should take place in

1982-83. But the EEF says

that if the changes lead to any

increased costs for industry.

implementation "must be

delayed until the industry is

in a better position to shoulder any such additional burden."

The MSC report proposes

price value of new contracts won totalled £1.3bn. Though this approximates the 1978-79 figure it implies a sharp drop in new business when expressed it should be responsible for

in constant terms. The value of contractors work outstanding at the end of April stood at £1.5bn against £1.6bn a year earlier.

British companies associated with the construction industry notched up a huge £2.74bn in overseas earnings in 1979-80, with consulting engineers, architects and surveyors accounting for £470m of the total. Exports of construction materials contibuted £2bn in earnings.

The Middle East markets remained the most important for British companies providing nearly half of all the contracts won. While the United Arab Emirates was again the largest source of new work, there was a growth in orders from Saudi Arabia and Egypt.

Construction orders also rose in North and South American markets, with the value of contracts reaching £270m, three times the level achieved in the year before and twice as high as in any previous year. The DoE says the 20 largest UK construction companies again took over 90 per cent of the work won, although 19 others won overseas contracts for the

# 'Gang of four' lobby for ethane route

PERSUASION should control the supply of North Sea gases for use as petrochemical raw materials has been stepped up by Shell, Esso, BP Chemicals and Imperial Chemi-ducers, especially now when and,

ICI, BP Chemicals, Shell Chemicals UK and Esso Chemical want the ethane gas-stream to go south, for use in their existing plants, rather than west, to a proposed petrochemicals complex at Nigg Bay on the Cromarty Firth.

Five days ago the four com-panies met Cabinet Ministers, to explain why their scheme should take precedence over the

The argument is likely to intensify because a group of banks led by the Bank of Scotland and Baring Brothers is ready to finance the start of construction work on the pipe-line project. This could add urgency to the onshore fight about ethane supplies.

The Nigg lobby has put a powerful case and created a

disproportionate amount of anxiety at Shell, Esso. BP and ICI by successfully dubbing them the "Gang of Four."

But the four have finally responded. The case they put to the Secretaries of State for Energy, Industry and Scotland last Wednesday is a strong one, doubtless strongly put. But whether it is better than that advanced by the Nigg lobby

remains in question

The Nigg lobby is divided.
One leading member is the
U.S.-based Dow group, which
outlined a \$400m plan for building a petrochemicals plant at Nigg using ethane as a raw UK-based Highland

Hydrocarbons has a rival plan to build a bigger petrochemicals complex at Nigg and to run it on a common-user basis. The Highland scheme also provides for some of the gases to go south for use in the four's

Another contender in the general race is the U.S.-based Occidental, which wants to use the gases at a comparatively small plant it wants to build at Peterhead, near St. Fergus. Occidental's plan means there will be probably enough ethane to feed both a Peterhead plant and either a Nigg plant or the existing southern plants.

But not until the 1990s will

there be sufficient gas from the offshore pipeline to supply both a Nigg complex and existing plants at Grangemouth and Mossmorran in Scotland and Wilton, Teesside.

The fight for control of the gases is intense because it is more economic to make ethylene, the so-called building block of the petrochemical industry, from ethane than from oil-based naphtha. The four, like the rest of the Western European chemical industry, are almost entirely reliant on

naphtha as feedstock. Whoever wins will be in a stronger competitive position than other, naphtha-based proSue Cameron asks who should control North Sea gases once landed?

Chemicals and Imperial Chemical industries.

The heavy gases will be brought ashore to St. Fergus, on Scotland's north-east coast, via the planned £1.1bn gasgathering offshore pipeline. The row is about who should control the gases once landed.

ICI. BP Chemicals. Shell ducers, especially now when Europe's petrochemical companies, including the UK four. Britain at least £300m — the Britain at least £300m — the world overcapacity and the world while the gases were left in the North Sea or burnt in power-stations instead of being turned into petrochemicals profitably.

The case they advanced on Wednesday was founded in that: the existing UK petrochemical industry could would be seriously certainly if "outsiders" allowed initial control of the

• their scheme would cost less than the alternatives — £150m against £200m, £400m or £800m; their plan to convert their existing plants from naphtha to gas feedstocks and to build an onshore pipeline from St. Fergus to the South could be operational years before the other schemes;

The claim that the UK petrochemical industry would damaged by outsiders

undoubtedly true but it is also a call for protectionism. Nigg lobby members predict that the Southern Four will

make allegedly empty threats to close some of their existing plants unless they are favoured. The real question is whether the present UK petrochemical producers ought to be given special protection. It could be argued that if they were worth protecting they should have spotted the potential in North

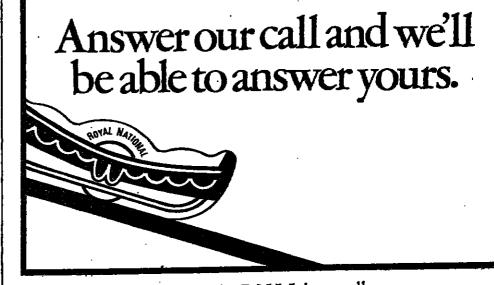
Sea gas earlier. Dow did when it bought 1,600 acres of land at

Nigg.
The four say the picture was altered completely by the Iranian revolution and the leap in world oil prices last year. They say that until 1979 the oil-based naphtha was quite able to compete against gas as a petrochemici feedstock.

The Southern Four's argument on cost seems a weak one. too. Their scheme would be cheaper than the but for whom?

would Some costlier, green-field development schemes at Nigg would mean greater new

The four are on stronger ground in timing. They reckon the UK industry, regardless of £100m every year the gases. notably the ethane, are not made into petrochemicals. The figure is based on the costdifferential



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# Why California may turn its back on Reagan

BY DAVID BUCHAN IN LOS ANGELES

victory California, Mr. Ronald Reagan's home sanctuary? Ridiculous, say Republicans here, but they har the electoral impact of the latest developments concerning the American hostages in Iran. and none would now place money that Mr. Reagan has the 45 electoral votes of the country's most populous state locked up.

The long-shot hopes of the President, who had planned to make the golden state his very last 1980 campaign stop today. are based on a recent Democratic poll showing him less than 5 per cent behind Mr. Reagan in California.

For the hard-driven Mr. Carter an upset California victory could either tip a surprise landslide on top of Mr. Reagan, or, in defeat, provide him the ironic consolation that Mr. Reagan had at least been rejected by the very voters who know him best.

Mr. Reagan—"Governor" as he is still honorifically called from his two terms in the Sacramento State House-has the cards stacked in his favour. His 1966-74 Administration is in general benignly remembered, though it was not the glowing success Mr. Reagan promises he could repeat in the White Houe.

Taxes did go up, but not by the amount they would have without Mr. Reagan's spending cuts. His Administration attracted no serious scandal. unusual for so long a period in so large a local government. California is too large and

self-confident to have the parochialism of smaller states. But many Californians who do not openly root for Mr. Reagan are not immune to a desire to see one of their number back in the White House, if only to redress the hash the last Californian president-Richard Nixon-made of

A Reagan victory would mean a sense, the nomination, with
Mr. Reagan's explicit approval,
of Mr. A. W. Clausen of the
California-based Bank of
America to head the World his erstwhile rival, Mr. Carter.

The Canter cause to loss to the calmost solidly Republican West.

Angeles' big Jewish community, almost solidly Republican West.

He and Westerners never hit it for President Carter. Governor off, since in 1978 he vetoed western water projects in the Federal budget. Bank was a foretaste of what but the Governor's flop this

lican voters tend to be more highly motivated to go to the factor." As everywhere, the Carter will do even polls than traditional Demo- independent candidate has tomorrow than in 1976.





Ronald Reagan . . . under pressure

California, this negates the 53 = 38 per cent edge in registration that Demostill

Despite the efforts of the black mayors of Oakland and Los Angeles with the black community, of Senator Edward Kennedy with Mexican Americans, of Vice-President Walter Mondale with trade unions, and messages from Mr. Ezer Weiz- paign counsellor. man, the former Israeli Defence

year in winning only one dele-And there is "the Anderson

slipped in the polls. But Quixotic quests thrive in the California air, John Anderson has natural turf in the San Francisco area. nursery of California liberalism which a Democrat would otherwise harvest.

He is also not without support in Southern California where he held a Saturday night Los Angeles rally, accompanied like all politicians campaigning down here by the inevitable acolyte from stage or screen (in his case, one of the scalpel happy "surgeons" of the MASH television series).

Republicans claim Mr. Reagan is getting a fair share of the support now deserting Mr Anderson, hecause independeat voters had been embit-tered by the Carter attempts to derail the Anderson effort. But other maverick causes do well in California, and one of them is the Libertarian Party, whose presidential candidate is Mr. Ed Clark and which competes Right-wing votes. If Mr. Clark were to get even the 4 per cent he received when running for mayor of Los Angeles two years ago, he could hurt Mr. Reagan as much as Mr. Anderson will Mr. Carter.

Having Mr. Reagan in the State House is quite different from putting him in the Oval Office, the Carter forces keep reminding Californians. Much media play has been given to the President's 1976 warning that "Governor Reagan couldn't start a war. President Reagan could." By the vagaries of the American system, under which parties are first torn apart in primaries and then supposedly welded together in general elections, the coiner of that slogan is Mr. Stuart Spencer, then a Ford adviser, but now the chief Reagan cam-

But Mr. Carter is still the Minister, who has been touting underdog in California-and the Carter cause to Los even more so in the rest of the

In 1976, Mr. Carter lost al the west bar Texas and Hawaii. It is Mr. Carter's problem gate in the primaries has This year he stands a chance across the country that Repubseverely knocked his credibility. in Oregon but Republicans are still hopeful that generally Mr.

## **Polish** strike alert still in force

By Christopher Bobinski

FOURTEEN HOURS of talks on Friday between the Polish Government and Solidarity. the country's largest indepen-dent union, failed to convince the union of the sincerity of towards the new free trade unions. The strike alert ordered for November 12 is still in force.

At the weekend the Warsaw branch of Solidarity released prepared after the talks by representatives of both Government and union and which the authorities refused

to sign at the last minute. Friday's talks were called after union protests at the Government's insistence on Solidarity recognising the supremacy of the Communist Party in its articles of registration.

The strike threat is real. After the talks Mr. Marian Juretyk, a moderate union leader from Szczecin, told the union national committee that a survey in his region had shown that out of 831 factories and institutions only eight had voted against strike action if union demands were not satisfied. On the insertion by

Warsaw district judge of a clause into Solidarity's articles saying that the union recognised "the leading role of the party in the State" Mr. Jerzy Bafia, the Justice Minister, promised that the Polish High Court would examine the union appeal against the decision by

The draft communique, if signed, would have confirmed a Government promise that the union would be given permission to publish a national weekly newspaper and details of access to radio and TV were to be discussed.

Government promised printing machines donated to Solidarity from abroad, and now held up by Polish customs, would be cleared free of tax and duty. The principles on which a union publishing house would "would be deter-

The only union demand the authorities are that farmers should have the day. Surprisingly, the improve-right to form their own union. day. Surprisingly, the improve-ment in freight rates has not

IATA MEETING

# Third World airlines flex muscles

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

of the International Air Trans- the latter part of next year, port Association conscious of the and that by 1982 the airlines fact that although they may should be seeing better times. have scitled some of their out- Their hig challenge is to surstanding problems they still vive until then, and in order face one of the most difficult to do this they are setting themperiods in civil aviation history. selves firmly against fares cuts

Not only is the business recession depressing traffic while costs of all kinds are resulting in substantial losses for many airlines, but there are also continuing problems such as the price of fuel and the ever present likelihood of scarcities in various parts of the world.

But a new factor has begun to obtrude itself on the Associa-tion's consciousness. This is the emergence of the airlines of the developing world whose numbers are increasing steadily and threatening to erode the influence of the bigger airlines of the developed industrial world.

The background to the airlines' current situation was spelled out by Mr. Knut Ham-marskjold, the IATA Director-General, in his annual report last week. With a record number of passengers-390m in 1979, per cent more than in the previous year—the airlines made virtually no money. The industry's operating profit was \$150m for just over 100 airlines before taxes with a net profit of

where these can be avoided and seeking, instead, fares increases. The possibility of fares rises The possibility of fares rises 
Py contrast, a new problem of 5-10 per cent worldwide by comes from within IATA from

external problems which the

have already added up to at face value, an innocuous \$100m to their costs in the UK document. But underlying it is alone this year and will add more if the increases now in the pipeline come to fruition. All these, however, are

airlines are geared to face because they have faced them before.

South African Airways has abandoned plans to beat the ban on overflying African countries by chartering Luxair of Luxembourg to carry out its flights to Athens and Rome, writes Quentin Peel from Johannesburg. Negotiations had been fruitless, SAA said at the weekend. It was understood agreement had been reached to sell a Boeing 747 to Luxair and paint a second jumbo jet in Luxair colours for occasional use. As the two airlines have failed to reach agreement, SAA will

continue to provide the twice-weekly flights along a long route around the bulge of West Africa

next April cannot be over- the emergence of the airlines

Apart from the price of fuel, which doubled last year and has risen by at least another 25-30 per cent since then with the possibility of further increases during the coming winter, the other inflationary factor facing the airlines is that of user only \$100m. charges—the price they have to
The general belief among pay for landing, parking and
airlines in Montreal during the taking off their aircraft at the

of the developing world who are beginning to realise their power in the IATA forum and also how to use it.

This attitude surfaced Manila last year when the pressures created by those air-lines resulted in the creation of the special inquiry under the chairmanship of Brigadier-General Enos Haimbe, managing Director of Zambian Air- outside, second.

THE WORLD'S sirlines go away meeting was that the recession world's airports. These increases ways. The inquiry's report is, from this year's annual meeting will begin to fade out towards have already added up to at face value, an innocuous a potent, long-term threat to the cosy world of the IATA created by the bigger airlines of the developed countries over

the past 30 years. In effect Gen. Haimbe and his team have served notice on. IATA that the old days have gone for ever and that the new era must take account of a situation in which the developing nations' airlines account for more than balf of the total membership of the association.

In Montreal they revealed a new face, and showed confi-dence in their stride. They were still tentative in challenging the precepts of the bigger airlines, such as the latter's right to introduce end-to-end fares that straddle their territory and took little account of their local views. But there was no doubt that the challenge was there, and that it was getting stronger.

Gen. Haimbe's report made it clear that the LATA system was almost in danger of collapse and that the eventual result of the bigger airlines' behaviour would only be a growth of "regionalism." with the smaller airlines establishing local associations whose basic belief would be to look after their own members' interests first and those of the bigger airlines

## SHIPPING REPORT

## Surge in Russian charters

THE MAIN feature of the week spread to the larger Panama; in dry cargo markets has been sizes (70,000 tonnes) and here the surge in chartering activity rates have eased back to \$15 per by the Russians, Brokers report tonne in the key U.S. Gulf, that about 30 ships have been Continent grain trade. fixed by the Russians as they work to cover the substantial shortfall in their grain harvest. Denholm Coates, the London shipbrokers, reports that the Russians have concentrated their activity on chartering ships for single round-trip voyages. With one exception they have not been chartering for longer. Time charter rates in the

Atlantic have risen to \$9250 per day for Great Lakes-type ships and 40/50,000 tonners are able to command up to \$11.500 per

In the tanker market rate have improved and the going rate for Very Large Crude Carriers (VLCCs) is above Worldscale 35 for the key voy age westwards out of Arabian Gulf.

However, John I Jacobs notes in his latest weekly tanker report that the improvement is freight rates has coincided with a rise of over a quarter in the cost of fuel during the las month. For a steam turbined powered VLCC the cost of extra bunkers on a round trip from the Gulf to Europe is about

## **World Economic Indicators**

		•	·			
			Sept. '80	Aug. '20	July '80	Sept 79
	UK £bn	Exports	3.922	3.958	4.032	3,610
		Imports	3.553	3.895	3.771	3.720
LX		Balance	+0.3 <del>69</del>	+0.063	+0.267	— O. 170
re	France Fron	Exports	40.928	40,752	40.974	38,520
er		Imports	46.358	44,770	47.639	40.307
[/		Balance	<b> 5.430</b>	<b>-4.6</b> 18	-6.665	— 1 <i>.78</i> 7
	Germany DMbn	Exports	29.4	24.2	29,2	25.1
25	-	Imports	27.8	24.3	29.1	23.3
ıg (		Balance	+1.6	-0.1	+0.1	. + 1.8
lě	Japan U.S.Shn	Exports	11.517	10.200	<u> 11.241</u>	9.199
re J		Imports	9.541	9,870	11.128	9,022
v-		Balance	+1.976	+0.330	+0.113	+0.177
ie i	U.S. \$bn	Exports	18.701	19,103	18.075	15.822
		Imports	19.465	19.236	18.995	18,407
s		Balance	-0.764	<b>-0,132</b>	~0. <del>92</del> 0	2.585
T	•		Aug. '80	· July '80 ·	june '80	Aug. 79
	Netherlands Fibn	Exports	10.512	11.059	77.884	70.163
<u>n</u>		Imports	11.472	12.025	13,338	17.280
h		Balance	-0.960	-0.966	- 1.454	-1.117
e	Italy Lirebn	Exports	4,9510	5,360.0	. 5,704.0	5,032.0
șt		Imports	6,590.0	.7,127.0	6,715.0	4,451.0
1- į		Balance	-1,639,0	1.767.0	-1,011.0	-518.0
a (		•	May '80	April '80		May 79
n į	Belgium BFron	Exports		176,862	173.96	145.416
t	-	imports	163.115	182.890	196.00	756.551
ſ		Balance	-11.513	-6.028	-22.04	-11.135
			•.			

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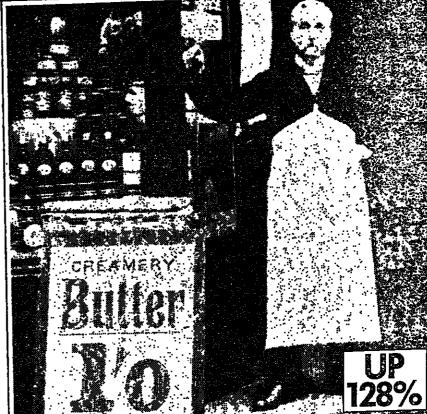
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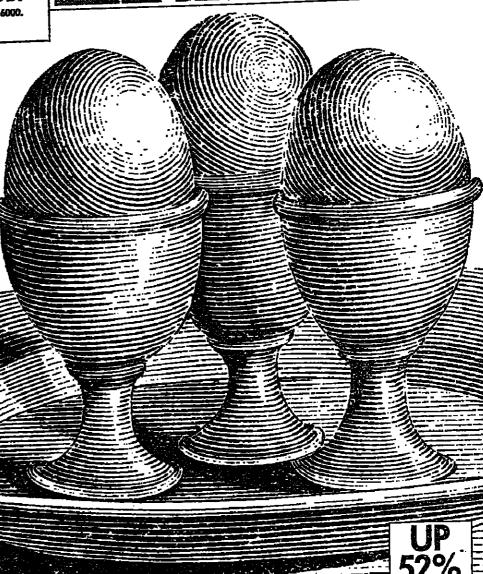
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Olio Apisi



Most annual company reports seem to wind up in a small number of time-honoured publications—the kind of publications chairmen believe are read by other chairmen.

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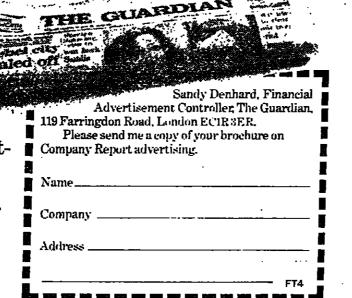
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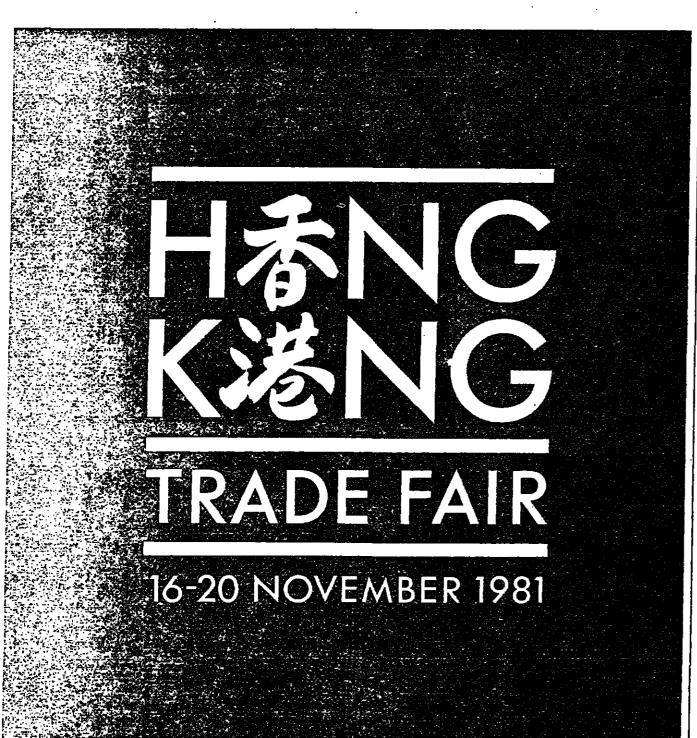
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# Recovery year seen as 1982

RY PETER RIDDELL ECONOMICS CORRESPONDENT

BRITAIN FACES another grim
12 months of falling output and
profits says the London Business
School in its Economic Outlook,
published today. But prospects
for after 1981 are brighter as
inflation declines and domestic
demand recovers.

The Outlook is produced by the school's Centre for Economic Forecasting. It says that if monetary policy is now tightened in line with the medium-term financial strategy the reduction in the inflation rate which has already occurred can be continued over the next four years.

The annual rate of consumer price inflation could average 84 per cent in 1982 and about 64 per cent in the following two years. On this basis, output, measured by real Gross Domestic Product, should recover strongly in 1982—up by 2.4 per cent, after falling by 0.6 per cent next year—and should grow by 1.9 and 1.8 per cent in 1983 and 1984.

The main causes of recovery in 1982 are a strong trade performance as the world economy grows; a rise in investment as company profits are restored; a tise in consumer spending as the inflation rate falls; and a rebuilding of stock levels.

However, the prospects for unemployment are poor. Although the recent rapid increases should not continue after next year, the total is still likely to rise slowly. The adult total in Britain is projected to be an average of 2.2m in 1982.

The next steps in the Govern-

The next steps in the Government's strategy are considered by Dr. Alan Budd and Mr. Geoffrey Dicks, in the economic viewpoint. They compare the current position with the previous cycle. They conclude that this time the inflationary consequences of monetary expansion have come through more, rapidly,

The authors examine the impact of the corset distortions. They conclude that money supply has effectively been growing at an annual rate of 15 to 16 per cent for the past three years. They say there must be a steady reduction in monetary growth from now onwards if the Government is to maintain its current progress in reducing inflation.

It is assumed that, because of the current overshooting, the target for monetary growth will have a centre range of 6 per cent in 1981-82.

On the usual unchangedpolicy assumptions, public-sector borrowing in 1981-82 is tentatively estimated at about £94bn. This will make achievement of the monetary target extremely difficult.

Dr. Budd and Mr. Dicks say that one way around the problem would be to set cash limits—rigorously defined as the permitted increase in public spending at current prices—at 6 to 7 per cent. in line with the monetary target. This would produce a public-sector borrowing saving of £24bn compared

with the forecast.

This would allow relief to be given to the corporate sector, for example, by reducing employers' national insurance surcharge.

The authors estimate that in later years the medium-term strategy should be consistent with cuts in taxation (corresponding to a reduction in the basic rate of income tax to 25 per cent by 1983-94), on the assumption that announced public spending plans are not exceeded.

They suggest that "on past experience the danger point will be around 1983, or possibly earlier, when the economy will be growing more strongly. It will coincide, we believe, with notable success in cutting inflation. The temptation to embark on a fiscal expansion, as in 1978, will be very strong.

"It may seem premature, at a time when the economy is still deep in recession and inflation is still at 16 per cent, to talk of the possible problems of success. But the whole point of the medium-term strategy is that it is intended to provide a policy commitment over many years and it cannot be too early to

warn of the dangers of departing

from it in the future."

Mr. Michael Beenstock, in a separate briefing paper, examines the current debate about monetary policy. He concludes that if public-sector borrowing affects the money supply it should also have a direct influence on inflation.

The Government should

Gross Domestic Produc

Consumer prices
Money supply (M3)
Current account (£bn)

therefore be less preoccupied with sterling M3 and lay even greater emphasis on public-sector borrowing. It should avoid sinking its energies into money base control which is, at most, advisable as a precaution. To avoid further money-market disturbances the authorities should revert to a floating rate policy for Minimum Lending

In detail, the Business School forecasts that public sector borrowing should decline from £9.9bn in the current financial year to £9.4bn in 1981-82, to £4.7bn in 1982-83, to £2.3bn in 1983-84, and to £3.3bn in 1984-1985. This is on the basis of unchanged policies and in part reflects the growing contribution of North Sea oil revenue.

The Business School is generally optimistic about the monetary outlook, assuming a marked deceleration in the rate of monetary growth and a fall in MLR from 16 per cent now to an average 12 per cent next Domestic Product compared

year, 10 per cent in 1982, and 10 per cent in the following two

LONDON BUSINESS SCHOOL FORECASTS

(0.2) (3.4) --0.8)

years.

Sterling is assumed to depreciate next year. The trade-weighted index, which is forecast to appreciate by 9.2 per cent this year, is projected to decline from an average fourth-quarter 1980 level of 75 (1971=100) to 68 by the end of 1981, and to 65 by the end of 1982. On an average year-on-

of 6.9 and 4.7 per cent.

After the recent sharp fall in consumer spending, more or less uninterrupted if modest, growth is expected for the rest of the forecast period.

of the forecast period.

This reflects the combination of a deceleration in the rate of inflation, which is expected to produce a one point a year fall in the savings ratio over the next three years, and the expectation that direct taxes

can be cut from 1982 onwards. The squeeze on the corporate sector is expected to continue. Company profits (excluding stock appreciation and North Sea oil profits) are expected to drop by 25 per cent next year, after showing little change on average this year. Consequently the financial deficit of the non-oil corporate sector is expected to reach nearly £9bn next year, or 4.3 per cent of Gross

with the record 5.4 per cent level of 1974. The result is expected to be

The result is expected to be a sharp decline in private fixed investments, with a strong recovery, led by housing, from 1982 onwards.

The expected depreciation of

The expected depreciation of sterling helps exports after 1981 but the fall in imports associated with destocking is now forecast to have run its course.

Although the level of imports is expected to be unchanged in 1981 compared with the average for 1980, the improved economic outlook for 1982-84 is forecast to produce import growth of 3 per cent a year. Consequently, the current account of the balance of payments is projected to move back into deficit over the next four years.

the next four years.

The outlook for earnings has improved. In the next payround earnings are forecast to rise by about 12 to 13 per cent, as reduced profits in the private sector and cash limits in the public sector combine to produce a significant deceleration. This should be maintained over subsequent pay rounds, when earnings rises should settle at about 7 to 8 per cent.

Economic Outlook 1980-84. Vol. 5. No. 1. October, 1980 is available- on subscription from Gower Publishing, 1, Westmead, Farnborough, Hants. GU14 7RU.

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New Issue - November 1980

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# CBI submits case for abolition of industrial rates

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

THE CONFEDERATION of month moratorium on payment campaign for a sharp reduction in local authority rates by callexamine plans for abolishing all

This call will be delivered during a meeting of the National Economic Development Council on Wednesday when Mr. Michael Heseltinc, Environment Secretary, will discuss the impact of his Department's

In a paper presented to the ouncil, the CBI says the council. financial plight of manufacturing industry is "now so serious that consideration must be given to the case for industrial de-

rating. CBI leaders know there is little chance of such a demand being met in the near future, and they have not yet adopted

it as formal policy.

But the fact that they are tabling the idea for discussion "illustrates their frustration at n time when the Government counter this attack by pointing has failed to provide concesto the services that his Departsions on their other major ment provides for industry. He economic and industrial will outline details of the cirdemands such as reductions in cular he is about to issue to the levels of interest rates and local councils stressing the sterling, abolition of the need for them to handle plan-

British Industry is to step up its of regional development grants. Resentment about these issues will'be aired at the CBI's ing on the Government to annual conference in a week. Local government spending and for manufacturing the burden of rates on industry will be raised at a fringe meeting on the eve of the con-ference which will be addressed

by Mr. Heseltine.

Last mouth the CBI called on the Government to stop local councils trying to offset public expenditure cuts by raising rates. It estimates that business rates will amount to about £4m in the current year, and complains that the Government has not tried to ease this burden on industry, either by setting ceilings or by allowing widespread payment by instal-

Referring to the Conservative Party's interest in abolishing domestic rates, the CBI argues in its paper submitted to the NEDC that there is a bigger case for abolishing industrial

rates. Mr. Heseltine will try to national insurance surcharge, ning applications faster and and cancellation of the four- with greater flexibity.

## Public sector borrowing 'may top £14bn in 1981'

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

serious continuing problems. But if no action is taken to with the level of public sector reduce borrowing to this level, borrowing, stockbrokers Phillips. Phillips and Drew believe this and Drew warn in forecasts. published today.

The brokers estimate that even with public spending cuts of f2bn in 1981-82 and with a borrowing might be a major mildly deflationary Budget next factor leading to a reversal in the downward trend of interest mildly deflationary Budget next spring, borrowing could reach £12bn in the next financial year. Without these elements, it could be more than £14bn.

Because of the impact of the ecession on savings and on bank borrowing, it is possible that a £12bn level of public borrowing could be combined and is with a 10 per cent rate of later.

GOVERNMENT faces monetary growth in 1981-82. would east serious doubts in the Covernment's determination to meet its financial targets.

> rates as the economy emerges from the recession in late 1981. Phillips and Drew have revised

> downwards their inflation forecasts. The annual rate of retail price inflation could be down to 11-11; per cent by next spring and into single figures a year

## Whitehall cuts Civil Service jobs by 900

By Our Industrial Editor

THE NUMBER of civil servants employed by the Departments of Industry and Trade has been cut by nearly 900 to 16,300 during the past 18 months.

This includes jobs lost through the abolition of the former Department of Prices and Consumer Protection and the Metrication Board, together with a substantial reduction in the size of com-mon service's divisions which support both Departments. Some of the cuts result

from Government attempts to reduce the amount of formfilling required of manufacturing industry by the Business Statistics Office and other branches of Whitehall. Mr. David Mitchell, a Par-liamentary Under-Secretary of State for Industry, unced three new initiatives at the weekend specially aimed at small businesses. He said a restructuring of quarterly inquiries into manufacturers' sales would cut the number of forms involved by 28,000 a year, saving £500,000 annually in

ness Statistics Office. It will lead to the loss of 100 jobs. A wider use of sampling in the annual census of production would save 10,000 forms and costs of £125,000. Further savings would be made by reducing the number of questions in the annual

manpower costs at the Busi-

minerals' inquity form. Overall, the number of civil servants at the Department of Industry has dropped by about 210. This has mainly been carried out by natural

wastage. At a top level in the Department, the number of deputy secretaries has been reduced from seven to five. The Department's research establishments have shed the most staff so far-120-while regional policy divisions and

offices have lost 80.
Only 30 have so far gone from the divisions which "sponsor" individual industries whose work Sir Kelth Joseph, the Industry Secretary, relies on for information about how the recession has hit manufacturing industry.

The number of civil servants at the Department of Trade has dropped by about 450 from 7.640 to 7,180.

# BL shop stewards face a test of nerve

stewards who meet at the Canley Social Club, Coventry, today to decide whether to recommend a strike in pursuit of a 20 per cent pay claim, "bear a heavy responsibility for the future of the company."

The location itself should be enough to remind the stewards of lost opportunities: the Canley site, home of Triumph until 12 months ago, employed nearly 10,000 workers, but is now being run down with the ending of the Spitfire and Dolomite models.

Union leaders are conscious that the past two years have seen not only a rapid cut in production facilities but also a steady stream of defeats at the hands of Sir Michael Edwardes, In each round of negotiations he has stated his position firmly at the outset, refused to shift ground, and watched the unions bob and weave before eventually acknowledging

This year he imposed a 5 per cent pay settlement linked to fundamental changes in working practices. He refused to panic in the face of a strike by more

BL CARS' management main-tains that the 300 senior shop Arthur Smith reports on a meeting of union leaders which will decide whether to recommend a strike.

halted nearly all car assembly, cent offer in response to the considerations of job security instead, he threatened to sack 30 per cent demand, they are secondary to the general

trade union leaders was to attend an 11th-hour meeting at which a form of words was agreed to defuse the situation. The pay deal went through and with it the controversial new working practices which mean that Longbridge, Birming-ham, where the new Mini Metro is produced, already enjoys productivity levels comparable

with the best in Europe.

Battered by the success of Sir Michael—the dismissal last November of Mr. Derek Robinson, the Communist convenor at Longbridge, greatly undermined the confidence of the shop steward movement-the unions entered the current pay round

diffidently. role to play as the site for the Last Monday, when senior planned new middle range car, stewards met in Coventry to the LC-10.

than 20,000 workers which reject the company's 6.8 per all workers who did not report bounced the issue back to the for duty by a certain date. bounced the issue back to the workers, calling for factory gate workers, calling for factory gate The response of national

Union leaders report that the militancy at Longbridge comes not from the activists but from the shop floor. Workers are complaining that take-home pay of £60-£64 a week, given the cut in overtime, poses domestic prob-lems. Wives are lobbying shop stewards in favour of a pay increase to meet mounting bousehold bills.

At Cowley, Oxford, an area where the moderates have traditionally held sway, 13,000 workers voted overwhelmingly for

strike action. Cowley learned only last week that under the 1981 BL corporate plan submitted to the Government it had an important

But stewards believe such unrest about the erosion of living standards while inflation

BL union leaders might suddenly be aware of the pay frustrations but they are equally conscious of their weak bargaining position. The company is faced with weak demand, extensive short-time working and the need to persuade an unsympathetic Government to provide funds exceeding the original £1bn

State contribution.

There will undoubtedly be a move today to give the company five days' notice of strike action. But the moderates will point out that Sir Michael holds all the aces: there are divisions not only between the plants, with those on short time not prepared to strike, but also between the unions, with the

**Bow Group attacks** 

eventually to break ranks.

Many union leaders believe
the BL negotiations "cry out for compromise" and that an 8.5 per cent offer might be enough to buy off militant action. But Sir Michael has already made clear that "not

a penny more" can be offered. Given such tough opposition. the stewards may back off from direct confrontation. Union leaders in Coventry

today know they face a test of

nerve. Sir Michael and the

Government will watch with

# Longer holidays

A THIRD of Britain's workers received longer holiday entitleand half of them have had a reduction in hours over the last two years.

This emerges from the latest edition of "Bargaining Report," a survey by the independent Labour Research Department of the 100 largest settlements in

## City 'favours general purpose annual reports'

FINANCIAL TIMES REPORTER

THERE IS considerable support general purpose company annual report, and very little sympathy for the suggestion cost basis, with additional that companies should produce current cost figures showing the separate documents to meet the impact of inflation. eds of expents, private share-

holders and employees.

This is shown by a survey carried out earlier this year by Business Opinions for Charles Barker, the City public relations

The survey shows that, although many are not read very carefully when first received, annual reports are by far the most popular source of information about companies. Eighty-six per cent of respondents nominated the annual report among the first three sources they would consult Around a quarter of people

in insurance and fund management first turn to a stockbroker's report on the company. The survey sample totals 342 'senior professionals," including insurance brokers, stockbrokers, bankers, people in unit and investment trusts, company executives, and accountants. It achieved a 75 per cent response

Almost two-thirds of the in the City for the idea of the respondents favoured the view that company accounts should be presented on the historic

> However, 50 per cent of people in unit and investment trusts felt that the main accounts should be on a CCA with supplementary historic figures.

The survey found support for the idea that preliminary announcements should contain more balance-sheet detail. There was strong support for the inclusion of more information about post-balance-sheet events and future prospects in annual reports.

People covered by the survey were shown some of the findings of the recent Financial Times World Survey of Annual Reports and asked for their comments.
Only a fifth of the survey sample disagreed with the view that U.S. companies produce better annual reports than British companies.

Reports ' Annual Accounts. A surrey of City opinion." Charles Barker, London: £60.

## Interest up $\frac{1}{2}$ % on tax certificates

THE RATE of interest payable on the certificates of tax deposit scheme operated by the Inland Revenue is to be raised from 14} to 15 per cent today in response to the rise in money market interest rates.

The certificates are available to taxpayers, both individuals and companies, to make advance provision for the payment of a wide range of taxes (other than PAYE) and for liabilities such as

Petroleum Royalty. The change in interest rates is for deposits under the series five prospectus.

The new rate for tax and other liabilities will be 15 per cent and the rate of interest on deposits withdrawn for cash has also been increased by ½ a point to 11½ per cent.

An interest supplement,
only payable in respect of a
deposit applied in payment of
a tax or other liability, of 2 per cent (instead of 21 per cent) will be paid in respec of the first three months (previously two months) of a

# **PAYE** computerisation

BY JASON CRISP

training and keeping competent tain the system and the inability of British Telecom to provide new communications links in a reasonable time, the Conserva-tive Party Bow Group claims in a report published today.

By comparison, the competence of the various computer suppliers is almost irrelevant, says the Bow Group. This week a Cabinet com-

mittee is expected to decide whether the contract to com-puterise PAYE will be from a single tender by British-owned ICL or if U.S.-owned manufacturers will be allowed to compete. It is expected that ICL

Government procurement policy, which expires at the end of the year because of EEC and GATT rules, is for a single tender for ICL. American com-panies like IBM, Burroughs and Honeywell have lobbied vigorously to be allowed to compete.

The Bow Group describes the Inland Revenue's original plan based on 12 regional centres and 20,000 terminals all inter- WC1. £2.50.

THE MAIN problems in com- connected and "on-line" as "an puterising the Inland Revenue's unnecessarily complex and Pay-As-You-Earn system lie in grandiose proposal" which staff to establish, run and main- take far too long to implement.

committee The Cabinet which considered Revenue's plans in August also feared it was too complicated and sent it back for reappraisal. The Inland Revenue is believed to have wanted IBM while the Department of Industry was very anxious it should be awarded to ICL.

A report calling for a step by step, simple approach, has been prepared jointly by Department of Industry, Inland Revenue, and the Government's computer agency, and been sent

The Bow Group report written by John Butcher, MP, and Mr. Philip Virgo, wants the Revenue to introduce an initial system based on small business computers with a trial starting in two offices almost immediately before being introduced around the country.

\*The Bio Steal (Computerisation of PAYE assessment), Bow Publications, 240 High Holborn

# ME GETS THE ANSWER FROM DATA GENERAL..ON HOW TO IMPROVE PRODUCTION CONTROL AND PROFITABILITY.



Ansafone is the biggest manufacturer and distributor of telephone answering machines in the UK, and one of the largest in the world.

Naturally, a company which is itself in the advanced electronics field, is no stranger to

"But we were using 1960s techniques for 1980s business," says Managing Director, John Evans. By which he means that Ansafone was buying batch-processing time for its various operations with six computer bureaux.

"All too often we were forced to base decisions on information that was already out of date and it was costing a fortune," adds Financial Director, Mike Smith.

John Evans: "If we were going to stay ahead, we needed our own on-line system. We needed it to administrate our tens of thousands of rental contracts. We needed it for payroll and internal accounts. Most vital of all, as a cost-conscious manufacturing company, we needed it to improve our inventory and production control, which, in turn, would have a significant influence on our overall profitability."

Ansafone investigated the hardware of sixteen computer companies before deciding the most effective answer was to install three mini-computer systems by Data General, to handle independently their three main requirements. Data General equipment was chosen on technical merit and its capability of using advanced COBOL, to simplify in-house programming.

From the word 'go,' in September 1979, things moved fast. The rental system was in and working by November. Stock control and payroll, by March 1980. And in June, the stock

control system was adapted to give production control and materials requirements planning.

The production control system - IMPCON (Inventory Management and Production Control) was provided as a package by Cable and Wireless UK Services Ltd, using a Data General CS/60 computer and six terminals.

"Before we had this new system," says Mike Smith, "the best we could expect were stock reports days late. Now, we can define production and parts requirements against manufacturing estimates with total accuracy. What we particularly like are the extensive costing facilities. It not only deals with parts and quantities, but converts them into cash values."

John Evans: "Dramatically better-the results are there already."

If you want the answer to improving your manufacturing or business processes, ring Data General, or find out more about us by sending the coupon, today.

# Port strike support 'overwhelming' Farmers

BY PHILIP BASSETT, LABOUR STAFF

to be severely disrupted today Slater. NUS general secretary, day. But the telex message said they may lose their jobs if they by a 24-hour National Union of travelled to Liverpool yesterday staff did not wish to take part refuse to sail on an eight-day Seamen's strike over the to address a meeting there in this action. Cunard flags of convenience today.

The union said yesterday that messages received at its head office indicated overwhelming support for the action. The strike was due to begin at midnight last night with the aim also discuss the effects of today's of preventing all sailings of action. A union spokesman said had been received in good faith. British ships from UK ports.

ships, though hovercraft services seem unlikely to be affected. Hoversloyd said its Ramsgate-Calais service would be operating as normal and had crewmen of the QE2, the com-

The union has organised a

The union's executive will meet tomorrow to receive a of feeling aboard the ship, and reply to its pay claim from the General Council of British Shipping. It is likely the executive will

yesterday that the possibility of The action is expected to halt extending the action and asking British - owned cross - Channel for further support from foreign ferry traffic, as well as cargo seamen could not be ruled out. The NUS also became involved in a dispute with Cunard yesterday over the validity of a telex message from

The unsigned message was peatedly refused." programme of 14 rallies and sent to Mr. Slater and Lord The message deplored the meetings of members at major Matthews, chairman of Cunard. decision of the NUS executive ports throughout the country. The ship is threatened with inprogramme of 14 rallies and sent to Mr. Slater and Lord dustrial action over the flags the dispute and asked the union

pany's flagship.

BRITISH SHIPPING is expected and Southampton. Mr. Jim docks at Southampton on Fri- crew of the QE2 have been told

The NUS doubted whether the message was representative said reports from the ship through official NUS channels indicated support for the proposed action. A spokesman for Cunard, though, said the telex

The mesage asked the union for advice on the legality of a secret ballot on taking action. It said: "It is our wish, we hope with your aproval, to hold a properly conducted secret ballot to assess the true feelings of the crew. We have requested your representative on board to arrange this and have been re-

Cardiff. Dover. Hull, Liverpool of convenience dispute when it to continue negotiations. The Arbitration Service.

trip to the Canary Islands on

Saturday.

The telex said if a decision was left until the ship docked. the crew considered it "could well be too late for saving future employment and the jobs on board the QE2 and all connected with it." The other two cruise ships

involved in the dispute, which centres on Cunard's wish to cut costs by placing the ships under flags of convenience, are the Countess, stranded at Barbados by an NUS sit-in. and the Princess. Four of Cunard's cargo fleet are also stranded. Lord Matthews has threatened to sell the cruise ships because of the

There was no contact between the two sides over the weekend, but an approach to both parties is likely early this week from the Advisory. Conciliation and

## Union banking plan is helped by Co-op

Bank, are well on the way towards drawing up a feasibility plan for setting up a banking institution controlled by the

financial and political motiveseventually takes root it will in the unions' view of financial institutions and their own cor-

significant rethink of current with a number of merchant union attitudes to finance which, in comparison to those held by unions in some European countries, might be regarded as

A number of frameworks are ship. being examined by the Co-opera-tive Bank. A report to be issued within the next few months on how much money will have to be injected by a project off the ground and the type of partnership the unions

From this, the more optimistic union officials see the creation of a new banking institution within a year or so, though with a fairly lengthy gestation period for it to gain credibility.

The impetus has come from much greater financia the General and Municipal than that in Britain. Workers' Union and in particu-

UNION OFFICIALS, using the NICK GARNETT examines the financial and political expernse of the Co-operative implications of the ambition of the trade union movement to establish a banking institution under its control.

> The unions have no expertise. Hurlston of the bank, in banking and need an exist-

Co-op, however. There have It would also represent a already been tentative talks banks and an Israeli bank. Local management at Barclays, which is one of the GMWU's bankers, has shown considerable interest in a possible partner-

Officials of the GMWU have also had discussions with West particular the Bank fur Gemeinwirtschaft - which are well developed and have close financial links with the equivalent of the Co-operative movement within the Federal Republic.

have developed a strong con-cept of retail banking and

The British unions have been seeking information on the way their West German colleagues cept of retail banking and accounts, pension and other be a stake in the handling of created a union movement with funds. The GMWU's income is the country's economic remuch greater financial strength currently about £20m a year, sources and an influence, though Not surprisingly, though, the that, alone several million financial market lar Mr. David Basnett, its Co-operative Bank has been pounds would have to be set lar Mr. David Basnett, its Co-operative Bank has been pounds would have to be set. This reflects a more corpor-general secretary. Considerable taking the lead in the project. aside by a consortium to launch ate attitude and has the indivi-

LONDON 18 & 19 November 1980

Competition in retail banking has intensified over the

past months. Nowhere are commercial banks likely to

take more interest in the opportunities provided by the

retail banking market than in the United Kingdom,

where between 40/50% of the adult population still

lacks a cheque account.

The Financial Times has arranged this conference to

examine the opportunities provided by the UK

personal banking market and consider how particular

institutions are best placed to take advantage of this.

Institution controlled by the other unions, particularly the and customers and we are tion might have a chance of an inions.

Association of Scientific, Tech-seeking a framework with offering better terms on loans.

If such a scheme—which has nical and Managerial Staffs, them," said Mr. Malcolm and other services to union

The unions have been tentamark a considerable departure ing structure which can be tively discussing the creation modified. They have not restric- of an institution with both a ted their discussions to the merchant banking arm and a type of clearing bank facility. though there are considerable legal difficulties.

The broadening of the Cooperative Bank's interests, including its Commercial Bank merchant hanking facility, has been a further attraction to the Given the antipathy of the

Trades Union Congress towards the way financial institutions are organised, bankers might question why it has taken so long for the unions to attempt to set up their own institution. Mr. Basnett stresses that

functional uses are the prime motive for the initative. The unions together have tens of millions in current and deposit Initial union estimates suggest interest has been awakened in "The unions are our friends even a basic banking facility. dual stamp of Mr. Basnett.

The GMWU's view is that the money that accrues from handling union funds should come to the unions. It also believes that a union banking institucustomers than is presently offered by the commercial system. But the question arises whether the unions have enough total funds to enter this area.

One of the prime functions of a trade union bank would be the management of pension and other funds and investment. There is also some possibility of a retail bank function attracting individual union members The Co-op Bank would obviously not wish to see its business base eroded, however.

There are clearly some longterm economic and more tenuous political overtones in the unions' move. Some unions suggest, perhaps optimistically that it could create a yardstick for pension fund management against which the performance of other banks could be mea-

A deeper commitment would minor to begin with, in the

# told they can afford parity

UK NEWS - LABOUR

By Our Labour Staff

THE INSISTENCE farmers that they could not afford to meet the wage claim submitted by the farm-workers' unlop for parity with average industrial earnings was attacked by the union at the weekend in preparation for the resumption of negotiations today.

Leaders of the National Union of Agricultural and Allied Workers have organised a rally in London today to tie in with the renewed pay talks with the employers representatives on the Agricultural Wages Board.

The union, which represents about one-third of the country's 250,000 full-time agricultural workers, bas tabled a claim which seeks to raise the basic pay of farm-workers from £58 for a 40-hour week to £110 for a 35hour week.

The employers have warned that jobs may be lost if any settlement is more than they

can afford.

Mr. Chris Kaufman, a national official of the union. said at the weekend that the farmers' reaction was designed to be menacing. He denied their claims that last year's pay deal of 191 to 241 per cent. one of the highest in the last pay round, had led to increased redundancies.

Fewer workers had left the industry than in the year hefore or in the average of the previous five, 10 and 20 years. He said farmers' claims that they could not afford to pay the increase were "utterly false."

Farmworkers 'negotiators will enter the talks today armed with a report from the independent Low Pay Unit which urges the wages board to approve a 30 per cent increase from January next year as the first step in closing the earnings gap between farmworkers and the rest of the community.
A similar increase should

follow next year's negotiations, in order to achieve parity by January, 1983. The report argues that in 1979. farmworkers would have required an increase in earn-ings of £33 or almost 50 per cent to achieve parity with non-agricultural employees. The unit says, though, that because non-family labour constitutes only 14 per cent of the total cost of agricultural inputs, a 50 per cent rise in earnings would only mean a 7 per cent rise in total costs. This in turn would mean an increase of less than 1 per cent in food prices in shops. pays proportionately more in tax and receives less in benefits from the state than his employer, it adds.

## Wilson calls for aid to newspapers

FORMER Prime Minister Sir Harold Wilson on Saturday called for State assistance for the newspaper industry—the day after the London Evening

In a letter to The Times he said the idea of strictly-controlled Government aid, rejected by publishers five years ago, should be looked at again. Under the Wilson scheme, aid would have been conditional on both sides of the industry "putting their house in order." Sir Harold said the plan might be greeted more favourably now that one newspaper had closed and another two were in eopardy.

## Jobs freeze

NORTHAMPTONSHIRE County Council has put a freeze on recruitment of all white collar and manual workers in a bid to cut back spending by a further £500,000. So far this year cutbacks of more than £10m have been made.

## **Parliament** next week

Monday: Debates n EEC decuments on milk and pig production; National Dock Labour Board (Increase of Loans Limit) Order: Consumer Credit (Advertisements) and (Quotations) (Amendment) Regulations.

licence.

Wednesday: Lords Amendments to the Civil Aviation Bill: Proceedings on Tenants' Rights (Scotland) Bill: Lords Message on Criminal Justice (Scotland) Bill: Thursday: Debate on offshors safety: Remaining stages of Overseas Development and Co-operation Bill: Regulated Tenancies (Procedure) Regulations.

Friday: Motions on EEC documents on agricultural produce, sheep meat and consumer protection.

LORDS Monday: Broadcasting Bill Report. Tuesday: Education (Assisted Places) Regulations. Highways (Road Humps) Bill Third Reading. Short debate on NEOC industry memorandum. Wednesday: Local Government faming and Land Bill, Third Reading Thursday: Broadcasting Bill Thir teading, Regulated Tensincies (Proce-

# Civil Servants want | Widespread pay reports released

BY PHILIP BASSETT, LABOUR STAFF

likely this week to seek an Morgan made an error in taking injunction against the director the decision to withhold the the unit's comparability reports. President of the Council, and which are used to determine pay Minister in day-to-day charge

The Government last week agreement, with the aim of Mr. Morgan should have first preventing the delivery to the called a meeting of the PRU unions of the reports since they Board which was established to will show due increases sub- ensure the correct running of stantially higher than the the unit's work." amount to be provided for pay in the forthcoming cash limits for the Service.

unions to inform them the reports would not be delivered. The unions replied with a step. equest from their solicitors that the reports be delivered, but union officials now expect that request to be refused.

In consequence, the unions are expected to seek a court injunction to obtain the reports which would provide a considerable propaganda weapon for the unions to support any industrial action taken in the new year.
The Government could be con-

siderably embarrassed if the unions manage through court

CIVIL SERVICE unions are The unions consider that Mr. increases for 550,000 white of the Civil Service, saying that collar civil servants.

it would be "appropriate" that the reports should not be desuspended the Service's pay livered. The unions feel that

The unions have warned of widespread industrial action over pay this winter, and their Mr. Vernon Morgan, PRU industrial action co-ordinating director, then wrote to the committee meets inday to draw up plans for a series of protest meetings this month as a first

> The meetings are likely to be in about 16 regional centres. For the first time, the action is likely to be co-ordinated to the extent that the offices of the Council of Civil Service Unions, the umbrella body of the nine civil service unions, will be used as a communications headquarters for the

Some union officials believe that the suspension of the pay action to negate the main reason agreement for this year is only for the suspension of the pay a prelude for its full suspension

# reduction in work hours

By One Labour Staff

A QUARTER of Britain's . workers have secured a reduction in working hours over the of the service's Pay Research reports following a letter to last two years, according to a Unit to secure the release of him from Lord Soames, Lord study of the 100 largest settlements in the last pay round published today by the Labour Research Department:

Earlier this year the department's Bargaining Report said roughly 4m workers won shorter working week agreements over the period: But following

involving Briffish Steel the general printing industry. London Transport, British Rail retail Co-ops, wholesale grocery, construction, ICI and Pilkington, the latest report says that total is now about 5.6m, or a quarter of the national work-force. The report takes no account of local and smaller national shorter hours settle

The LRD says: "A feature of the 1980-81 pay round is certain to be very heavy pressure from unions on employers who have yet to agree to shorter hours." The survey covers roughly 111m workers — about 7.9m manual and 3.6m non-manual, about 6.1m public and 5.4m private sector employees. A third of Britain's workers received an improved holiday entitlement in the last pay round, it adds.

Kensington New Town Hall

National Exhibition Centre,
Birmingham

Metropole Hall, Brighton

Cunard Intal Hotel, W6 National Exhibition Centre,

National Exhibition Centre.

Belle Vue, Manchester Magnum Exhibition Centre,

Post House Hotel,

Birmingham

Southampton

## **BUSINESSMAN'S DIARY** UK TRADE FAIRS AND EXHIBITIONS

Date	71Ue -
Nov. 4-6	Computer Peripheral and Small Computer Systems Exhibition and Conference (01-837 3636)
Nov. 4-9	Kensington Antiques Fair (04868 22562)
Nov. 6-16	Caravan Camping Holiday Show (01-353 4000)
Nov. 8-16	Daily Mail International Ski Show (Medway 47111)
Nov. 9-11	International Garden and Leisure Exhibition-
	GLEE (01-546 6757)
Nov. 11-13	Fast Food Fair and Conference (01-837 3636)
Nov. 11-14	London Business Equipment Exhibition
]	(01-405-6233)
Nov. 11-14	The Factory Management and Maintenance Engin-
!	ering Show and Conference (PEMEC)
į	(01-747 3131)
Nov. 11-14	
	(01-747 3131)
Nov. 12-15	International Festival of Wine (0703 32348)
Nov. 16-19	
1104. 10-19	(01-407 4046)
Nov. 24-29	
	(06284 2442)
Nov. 25-28	The Which Computer? Show (01-747 3131)
Nov. 26-28	British Marine Trade Show (0932 5451)
410 - 20 20	DISCISI WESTER TIME DAGE (AND GAR)

	Diffin World Lines And / Aser and /
OVERSEA	AS TRADE FAIRS AND
iov. 3-8	(01-681_7688)
	International Trade Fair for Clothing Textiles— INTERSTOFF (01-734 0548)
0va8-16	International Boat Show (01-540 1101)
ov. 9-14	Middle East Building Materials and Construction Industry Exhibition (01-486 1951)
ov. 14-23	Mining Industry Technical Fair—TECNOMIN (01-681 7688)
ov. 17-22	International Packaging Exhibition (01-439 3964)
ov. 19-22	Medical and Technical Exhibition and Congress— MEDICA (01-409 0956)
ov. 19-22	International Hospital Engineering, Exhibition and Conference—HOSPEX (01-486 1951)
ov. 19-29	Pacific International Trade Fair (01-681 7688)
ov. 24-29	Oil and Gas Industry Equipment and Services Exhibition (01-935 8200)
ov. 29-Dec. 7	Antiques Exhibition—ANTIQUA (01-540 1101)
ec. 8-12	International Machine Tool and Woodworking Show—METALASIA (01-486 1951)

# Leicester National Exhibition Centre, Birmingham Metropole Hall, Brighton

EXHIBITIONS Frankfurt. Bahrain Tokyo Mexico City

Olympia

Earls Court

Singapore

## BUSINESS AND MANAGEMENT CONFERENCES Conference: Investment in Malaysia

	(01-621 1355)
Nov. 4	(VI-021 1500)
NOY. 4	Gwilym Jenkins: Forecasting For The City
	(0524 61831)
Nov. 5	Abacus: Health and Safety in the Printing Indus
	try-Reducing the Risks: Avoiding Confronts
	tion (0604 881300)
Nov. 5-6	MTC: The Skills of Interviewing (0533 27062)
Vev. 6-7	Graham and Trotman: Argentina and Chile-New
	Business Opportunities (01-493 6351)
Nov. 11	Oyez-IBC: Food Law for the 1980s (01-242 2481)
304. 11	O3 CE 120. 1 000 DEW 101 INC 18003 (01-247 5401)
T 10	Donal Statistical Coolem. Who Titlian Committee
Nov. 12	Royal Statistical Society: The Wilson Committee
	review of the functioning of financial institu-
_	tions—some statistical aspects (01-723 5882)
Tov. 13	London Chamber of Commerce: UK/Soviet trade
	conference (01-248 4444)
Tov. 13-14	Keplinger and Associates: Symposium on Oil and
	Gas Investing and Financing (01-584 4351)
lov. 13	IPM: Industrial Relation Law (01-387 2844)
ov. 14	Gower: Choosing and Using an Insurance Market
	(01-240 5931)
lov. 17-18	AMR International: Using Advanced Techniques in
01. 11-10	International Mechanics (01-262 2732)
ov. 17 `	Institute of Directors: The Common Market
07. 11	(01-839 1233)
10	
iov. 18	Heliotechnic Educational: Opportunities for Marketing and Investment in Solar Energy
	warkening and investment in solar Energy
	(01-240 2430)
ov. 18-19	FT Conference: Retail Banking (01-621 1355)
ov. 19	Institute of Directors: Annual Lecture (01-839 1233)
ov. 20	Oyez/IBC: Oil and Gas-Accounting Taxation and
	Financial (01-242 2481)
ov. 26-21	FT Conference: Employment in the 30s
	(01-621 1355)
ov. 24	BCPA: Contracts of Employment (01-405 1023)
ov. 26	IPS: Trading with China (0990 23711)
ov. 27	Gower Conferences: How to develop and launch
	new industrial products (01-240 5931)
ov. 27-28	AMD: The Leadership Course (07535 56047)
	Business Perspectives: The Brandt Report—Impli-
ec. 4 · `	Duamess retayectives: the Brandt Report-impil-
	cations of International Business and Finance
	(01-584 3132)

Kuala Lumpur Clifton Ford Hotel, W1 Mount Royal Hotel, W1

Hilton Hotel, W1 Princess Anne Theatre, BAFTA, W1

London, WC1 69 Cannon Street, EC4 London, WC1

Waldorf Hotel, WC2 London Press Centre, EC4 Pall: Mall, SW1

Pall Mall, SW1 Grosvenor House, W1

Royal Lancaster Hotel, W2 Grosvenor House. W1 Royal Horseguards Hotel, SW1 Tara Hotel, Loudon

Café Royal, W1 Gloucester Hotel, SW7

Royal Lancaster Hotel, W2 Amyone wishing to attend any of the above events is advised to telephone the organisers to ensure that there has been no change in the details published.

## **Financial Times Conferences**

Grosvenor House, London-November 18 and 19, 1980 A two-day conference to explore opportunities in retail banking, particularly in the United Kingdom personal banking market where between 40 and 50 per cent of the adult population still lacks a

The competition for the personal saver will be discussed by Mr. J. A. Brooks, Director and Deputy Chief General Manager, Midland Bank Limited; Mr. J. M. Fry, General Manager—Marketing and Planning, Abbey National Building Society; Mr. T. Bryans, Chief General Manager, Trustee Savings

Bank Central Board. EMPLOYMENT IN THE 1980s

Grosvenor House, London—November 20 and 21, 1980

The prospects for job creation in the present economic climate will be examined at this conference ny the Rt. Hon. Lord Lever of Manchester; the Rt. Hon. John Silkin, MP, Principal Opposition Spokesman for Industry; and Mr. Alan T. Sutton, Executive Director—Industry and Investment, Weish Development Agency.

All enquiries should be addressed to: Financial Times Limited Conference Organisation Minster House, Arthur Street London EC4R 9AX

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To: Financial Times Limited. Company Conference Organisation Address

The panel of speakers will include:

Director & Group Chief Executive

Membre du Comite de Direction

Banque Bruxelles Lambert SA

Group Personnel Controller

National Westminster Bank Limited

Mr Daniel Cardon de Lichtbuer

Mr W J Benson

Mr P T Hindley

Debenhams Limited

Administrateur

Name

Mr J A Brooks

Midland Bank Limited

Marketing and Planning

Bayerische Vereinsbank

Abbey National Building Society

Member of the Board of Directors

Mr J M Fry General Manager,

Dr P Pfeiffer

Director & Deputy Chief General Manager

A Financial Times Conference



Engineers at the Skelmersdale, Lanes, plant of Dewrance, carrying out steam tests on a pilot-operated safety-relief valve for a nuclear power station. The company says it has major orders for high pressure valves and boiler mountings for nuclear plants under construction in France, America, South Korea and Spain. New orders, worth in total more than £2m have been won for valves for power station work in India and for fertiliser plants in Rash Traya.

## HEATING

## **Drying-out** is speeded

A BUILDING'S finishing stages degrees C range. In fact, says can be planned and started at the company, in the extremely any time of the year because difficult drying conditions of of the benefits of a new building humidity, the unit's water exdryer, says Westair Dynamics, Thames Works, Central Avenue. Sest Molesey, Surrey (01-941

of demanding cularly efficiently in its 6 to 35 and down stairs.

10 degres C and 50 per cent traction rate has been improved by over 200 per cent.

operating conditions in overseas 540 nm.: wide and weighing just Impex, Lion Road, Twicker markets, particularly in Scandi- 77 kg. This means it presents Middlesex (01-892 9157). nevia, has led to the develop- no problems in being manment of the machine's heet hancles in and out of vehicles, pump circuitry to operate parti-

## Mobile heating source

ONLY ONE gallon of paraffin is is suggested for applications needed to provide instant heat where a mebile source of heatfor three hours with a new high ing is required-garages, airoutput chassis mounted mobile craft hangars, drying out build-oil heater claims Wysepower, ings in bad weather, on Drove Road, Everton, pear construction sites, livestock Gamlingay, Sandy, Beds (0767 buildings and greenhouses, etc.

(the equivalent of 171 kW) and and 240 volt supply.

A flame failure safety cut-out Called the 60D model space switch is standard on the heater heater, it provides 60,000 BTU which is available for both 110

# Searching for the sweet sound of success

says Mr. John Hayes, director of a small hi-fi manufacturer, IMF Electronics.

After 10 years' research and patents, the company believes it has developed a hi-fi system called ambisonic surordinary stereo hi-fi sound as primitive as Edison's tin foil phonograph seems to us today. Now the company, which

earns its living manufacturing loudspeakers and which exports over 70 per cent of its output, is looking for a bigger partner to share in its discovery. Mr. Haves explained that with

little depth because it comes from only two speakers in front of the listener.

With the IMF system, the sound like the Albert Hall if the piece of music was recorded

Barton at Reading University into only two signals which are

"WE CAN turn your living and Dr. Michael Gerzon at recorded and used to make the sound as an international which also compressed four room into the Albert Hall," Oxford University.

Stereo disc.

standard, following successful sound signals on to a stereo

A significant amount of the NRDC money has been spent on protecting the design with patents throughout the world. Mr. Peter Tanner who looks round sound which will make adopted world-wide it has the speakers can be added if potential to be a vast business like stereo.

In Britain, the BBC carried out successful trial broadcasts using the surround system (which it calls UHJ) in 1977. But there will be no permanent surround sound broadcasts until So far, only two small it can secure union agreements. recording companies, Nimbus

be played on normal stereo selections of Chopin, Debussy equipment. During recording and Beethoven, However, IMF only one specially designed is also releasing some jazz listener is surrounded by at microphone is required. This records, the first of which is least four loudspeakers. Mr. has been developed by Calrec called "Beginnings" by the Hayes said: "We can produce Audio in Yorkshire, which Reformation Dixieland Band to the illusion that a room is makes conventional micro-appeal to a wider audience. bigger than it really is: it would phones for the BBC and has worked closely with IMF on decoder and two extra loudsurround sound.

This microphone picks up the More than £100,000 has been sound in the recording studio spent by the National Research and turns it into the four Development Corporation to separate signals which are help IMF develop surround needed for the surround sound. Much of the basic effect. These are then digitally research was carried out by Dr. encoded and compressed by a

BY ELAINE WILLIAMS

sound, a decoder picks up the coded stereo signals from the stylus and turns this back into cision has yet been made. the four separate signals which

required. The effect, even to my tone created during the recording

Surround sound records are and Unicorn, are using the conventional stereo, sound has made in exactly the same way system to produce high quality as conventional records and can stereo discs. Many are classical

> With the surround sound sneakers conventional stereo records can be played to give an improved sound effect which IMF calls "super stereo."

The NRDC hopes that the Federal Communications Committee, which regulates broad-casting in the U.S., and the members research was carried out by Dr. encoded and compressed by a casting in the U.S., and the members the unsuccessful Peter Fellgett and Geoffrey complex mathematical formula European Broadcasting Union attempts during the early 1970s

In order to play back the demonstrations this year in record. But since the signals Chicago, Dusseldori Amsterdam and Brussels. But no de-

Most of the major recording after the project at NRDC said: are then fed through amplifiers and his manufacturers are consumer interest. "If we can get the system to the four loudspeakers. Extra known to have looked at the possibilities of surround sound broadcast quadraphonics suc-but have not indicated that they cessfully either, as it required will adopt the system. This is four separate radio bands to deaf ears, was impressive, due to several factors including transmit each of the channels. Special effects, such as turning the downturn in consumer de- In the crowded airwaves used orchestras upside down, can be mand caused by the recession and new developments such as nels-those used for stereothe video disc-which may be more attractive in the long

> So, for the moment, IMF Electronics and the NRDC are existing mono and stereo broadleft to promote the new system on their own. But as a small manufacturer, IMF does not have the resources to manufacture on a large-enough scale to make the equipment cheap. It hopes that a company such as Philips will take up a

licence to manufacture. Philips says that for the foresecable future consumer demand will be satisfied by conventional stereo and although it is keeping "its options open" systems it has no plans to introduce surround sound.

The record industry still reboth accept surround to introduce quadraphopics-

It is added that the new-to-

the-UK system can be used with

virtually any chemical substance

and is unaffected by most

## the stage where some large company needs to "take it up in a bigger way." Stereo took more than 15 years to become popular, but if there is any money to be made from surround sound the NRDC believes that the 127 patents ensure that Britain gets it. HANDLING

Fork lift

trucks

way, the reproduction did not

sound as realistic as surround sound, and there was very little

Radio stations could not

by broadcasters only two chan-

system, quadraphonics broad-

casts were not compatible with

Today a complete surround

sound system costs £650: the

decoder on its own accounts for

£250. Mass production could

bring the decoder cost down to

Mr. Tanner at the NRDC

admits that it will be some time

before surround sound catches

on. He said that it had reached

could be employed.

casts.

only £30.

EASIER SERVICING of forklift trucks is promised with the introduction of a two-speed hydraulic fork lift truck jack whose low profile design allows it to slide under trucks and which has as little as 21 ins ground clearance, announces Peel Equipment, The Wye Estate, High Wycombe, Bucks

(0494 451111). Once it is in position the FLJ400 is said to make fast work of lifting the truck to a height of 16 ins. The higher speed is used until the lift-pad meets the load, and then the jack automatically switches to low speed for easier lifting.

A "walking beam" principle is used for optimum safety and, although it weighs less than 60 lbs and has a lifting capacity of 8,000 lbs, the jack is said to handle all types of trucks.

The walking beam design also facilitates the unit's portability from job to job—it can be wheeled on its heavy duty castors or folded flat

## المرازات المرازات DIRECT GAS-FIRED SPACE HEATING & PROCESS HEATING SAVES ENERGY AND MONEY

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## SECURITY Door will Unlike the surround sound TESISI

OFFERING PROTECTION in high security areas or blast resistant buildings is a strong door system developed by Mowlem (Civil Engineering) of Bracknell, Berks, which says eight of these have been installed in a blust resistant controi room at Esso's Fawley Refinery near Southampton.

System is designed to meet Health and Safety regulations laid down by the petrochemical industry and is intended for use in areas where special safety considerations are needed to protect people, plant and equip-ment, and to maintain the integrity of a building in

adverse conditions.
Supplied either with or without automatic equipment the doors come in standard sizes, or specially to order. Auto-matic equipment is usually pneumatically operated and can be opened manually in the event of power loss.

The doors are said to withstand rebound loadings and remain secure and operable under multiple blast conditions.

## Warning is loud and clear

A DISTINCTIVE and penetrating warning signal is said to be emitted by a new type of audible warning device called the Howler, just launched by Chubb Alarms, 42 Hersham Road, Walton-on-Thames, Surrey (09322 43851).

Housed in a weatherproof stainless steel box the unit is operated through timing and control circuits connected to a nickel cadmium battery suoply and charger unit. The alarm can be used either on its own or in conjunction with remote signalling equipment to police central monitoring stations.

## • PROCESSING

## Keeps a watch on liquid levels in tanks

LEVELS OF toxic, corrosive or proof measuring system which opposed to each other. crust-forming solutions in tanks, pressure vessels, etc., has always posed problems in many manufacturing industries and, due to the very nature of these substances, many measuring LB 300-1 Liquid Level Monitor, systems have had limited appli-Westair's latest model is cations due to poor accuracy, simple but robustly designed risk of corrosion — or even with a height of 1140 mm, only explosion—says Laboratory explosion—says Laboratory Impex, Lion Road, Twickenham,

Promising to satisfactorily

recover an average of 17 gallons

of oil for every 1,000 lb of steel

swarf processed and promises a saving of about £35 per

Based on a novel range of

and 9,000 lb of swarf on hour

automatic centrifuges capable that costly conveyor systems are

of processing between 200 lb no longer required.

1,000 lb swarf processed.

has no moving parts and is unaffected by all chemicals and most physical properties of This is made by Berthold of West Germany, is known as the

and provides a constant readout accuracy of within 3 per cent. The system consists of a very low intensity radioactive source unit and a high sensitivity

scintillation counter detector. overcome these hazards is a new Both are positioned outside of in the fabric of the vessel or non-contacting and explosion the vessel but diametrically its contents, it is stated.

Billingshurst, West Sussex (040-

convey the dried swarf for con-

siderable distances which means

Energy imparted to the swarf

is emitted from the source and passes through the contents of the vessel. Intensity of the energy reaching the detector is readout is produced via an electronic amplifier. This can be of vessel contents with an situated a considerable distance from the detector without loss of accuracy. Careful shielding of the source prevents any contamination danger, and there is no risk of radiation building up

A narrow beam of radiation

physical properties including temperature, pressure, viscosity, related to its filling level, and a conductivity and dielectric con-Applications for this development in process control are as wide ranging as the chemical industry itself, says the company, adding that some proven areas are chlorine, DMT, caprolactum storage tanks, high and low pressure vessels, autoclaves

Separates cutting oils from the swarf that machined parts that find £15,000. This price would their way into the swarf are recovered for production.

A NEW range of swarr and on separating plant decimed for the recovery of cutting oils tion & Separation Products), swarring of the recovery of cutting oils tion & Separation Products), Gillmans Industrial Estate, West Sussex (040-System is scavenged by high velocity air which enables a single system to be used on by the centritues is utilised to different swarfs-for example. aluminium and brass, in quick succession without contamination between the two.

A typical system capable of A novel parts separator is handling 2,000 lb of steel swarf spillage in yards and drains.

bour would cost around include a parts separator and a 100 feet tube system to take the swarf out of a building for decepting into, say, a skip. Oil recovery a year on a oneshift basis for only five days a week would be in the order of £140,000, says the company, but in addition to these benefits would be the elimination of oil

ibe Chewoner: Life or gold (7.749) is a gold reminist /90/1000, 2007 A fine

# Is gold only for the privileged few?

By no means. For those who don't choose to invest huge sums in hefty gold ingots or 1-ounce coins, there now comes a histrous alternative from Russia.

The Chervonets. One

quarter ounce of pure gold. Over the past 10 years, hardly any investment has had a better track record than gold - a fact that indeed speaks for itself.

Far-sighted investors have always purchased

gold. At least with part of their assets, because this precious metal has far more than merely magic appeal.

Among other things, gold is scarce. So it is coveted by many. And that's exactly where the Chervonets really shines. Because at its price, it is no privilege of the privileged few.

For giving, too, the Chervonets makes the very finest impression.

As a small, but distinctive, contribution to a loved one's nest egg. And for only a few extra banknotes, you can now even acquire a gleaming Proof quality Chervonets. The coin's limited issue

lends it additional numismatic value. In 1980. only one million were minted for world-wide distribution - including 100,000 in Proof quality. Its price is keyed to current world market rates. Daily.

There's good reason to expect the Chervonets will be the most brilliant investment you ever made.

## Chervonets Wozchod Commercial Bank Lid., Zurich

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THE LARGEST single contract

for land reclamation evel-awarded by Telford Develop-

# Building and Civil Engineering

# £15m awards to R. M. Douglas Higgs and

scheme at Morriston, near Swan- Symonds and Partners. sea tops a list of several conto R. M. Douglas Construction. the Welsh Health Technical

In South Wales, tracts totalling £15m awarded Carmarthen, the company is to build a processing plant for Worth over £10m, the Dalgetty Spillers Agricultural hospital has been designed by (£630,000) while further north

the company is to undertake Services Organisation, Consult- factory reconstruction at the ants are Ove Arup and Partners Whitegate complex. Wrexham

# **Housing in London**

from another contractor the completion of new homes for for the Greater London Council. The dwellings are being built

CONSTRUCTION 96 four-person homes, 69 fiveannounces it has taken over person homes and 18 six-person homes.

Construction is of traditional about 1,067 people under a brickwork cladding and slate contract at Broadway roofs on concrete foundations Market, Pownall Road, Hackney and all homes will be centrally heated,

External works include estate in 28 blocks ranging from single roads and footpaths, services to four-storey in height. Blocks and drainage. Completion is comprise 115 two-person homes, due in December 1982.

## £4m service contract

THE MECHANICAL and electrical building services contract on MEPC's development at Long Acre in Covent Garden has been awarded to Andrews-

This is worth over £4m and covers the working design and Jaros, Baum and Bolles of New installation of all air condition-

and cold water, plumbing, electrical and fire protection services, etc. Work has already started and the building is due for completion in June 1982. Architect is R. Seifert, struc-

tural consultant Ove Armin and Partners, service consultant ventilation, heating, hot Robert McAlpine and Sons.

## Converting a flour mill

of the existing 19th century modation for 119 people.. There Thames Tunnel Mills at Rotherhithe, SE16, valued at £2.1m has been won by Eve Construction.

This five-storey flour mill damaged by fire some

CONTRACT FOR the conversion verted into single person accomwill be 71 flats together with communal common room, laundry room, roof gardens, conservatory and riverside balcony.

Existing roofs, floors, internal walls, beams and columns will be demolished to ground level years ago—lies about one mile retaining only the external from Tower Bridge in a conser- walls, main cross and core walls, vation area and is to be con- water tower and brick chimney

## Structural steel orders

AN ORDER for the fabrication of structural steel totalling 750 to carry out a contract for the tonnes for a salt water intake tonnes for a sait water intake tonnes of ducting for a waste structure and two pipe racks at heat recovery system at Grange Raz Ranuf, Libya, has been mouth refinery, while S. W. obtained by S. W. Farmer and Farmer (Leeds) will be fabri-Raz Ranuf, Libya, has been

fabricate 1,000 tonnes of con-veyor steelwork and towers for Industrial Estates Corporation storage plant at Auglish Island,

Farmer Plant Engineering is supply and crection of 200 cating and erecting 500 tonnes of structural steel for a ware-

HOSPITAL development and quantity surveyors I. E. for Morgan Grenfell and Wiex-Value of the latter contract is £2.2m.

Also worth £2.2m is a contract for advance factories at Gateshead for English Industrial Estates Corporation.

£12m worth

TWO MAJOR contracts totalling

over £12m have been won by

a £7m contract from the Mid-

level and lower-ground car park-

ing. Jones Lang and Wootton

Project Services have been

appointed as project managers. The other contract, worth

£51m is from the Prudential

Assurance Company for the re-construction and refurbishment

of the CBI headquarters building at 21 Tothill Street, London

This two-year contract is for

a nine-storey air-conditioned office building, and includes construction of new plant

rooms and mansard roofs, new

lifts, stairs and services, and

reconstruction of the front ele-

Mowlem is

east of England, worth together

£1.75m have been awarded to

The largest, worth £420,000, awarded by the English Industrial Estates Corporation, is to

design and construct a factory

and offices for J. Barbour at Monksway. Simonside, South

construct contract for the Cor-

poration is at the Tantield Lea

Îndustrial Estate, Stauley, Co.

Durham. Valued at about £300,000 it is for 24 small

advance workshops.
Other awards are for the re-

construction of a road embank-

ment and river culvert at

near (£250,000) and a waste paper

processing factory for North

East Paper Company at the Thornley Station Industrial

The rest of the contracts in-

clude two wells, pumping equipment and water mains at

Drax power station (£245,000)

and installation of a materials

treatment plant for Smiths

Dock Company at South Bank,

Shotton

Estate.

(£300,000).

Middlesborough.

Another design and

Durham

Colliery

kept busy

John Mowlem and Co.

The larger of the awards is

Higgs and Hill

## £6.7m dam contract

COSTAIN International has been awarded a £6.7m contract for the construction of the Victoria Dam power station and associated works in Sri Lanka.

The project, for the Mahaweli Authority of Sri Lanka, is part the Mahaweli irrigation scheme and will involve the excavation, by drilling and blasting, of some 250,000 cubic metres of rock and the placing of about 40,000 cubic metres of reinforced concrete.

Consulting engineer for the contract is Sir Alexander Gibb and Partners. Work is due to start in early 1981.

## **Preparing** for the tourist

ROYAL COMMISSION for SEVEN contracts in the north Juhail and Yanbu, Kingdom of Saudi Arabia, has appointed consulting engineer Haiste and Partners to improve and develop tourist facilities in the municipiality of Hofuf.

Haiste will design and supervise in association with Dorr Trading on the £1.5m project which covers the Ain Najim Spring and the Jebal Al-Qarah

Work at the Spring will provide a new bath house, lodgings, a prayer shelter, food klosk and rvice facility buildings. Three ancient dome structures on this site are to be refurbished. At the Caves, catering, toilet and other facilities will be pro-

On both sites, there will be incorporated deep bore-holes for potable water supplies and small sewage treatment plants made by another British company, Simon Hartley of Stokeon-Trent.

Haiste engineers responsible for the Hofuf scheme and other design and supervisory work in alumina calcination and at Team Valley, Grangemouth. Saudi Arabia will be based on age plant at Auglish Island. Total value of these orders is the firm's new office in Al

## Pipes ordered by Iraq

Glynwed Foundries of Telley. buildings throughout Iraq. ; Telford Salop, under a £6.3m order.

The company has been working short time for several months because of the depressed home market and won the contract against strong competition from producers in Iraqi authorities during the India. China and eastern bloc last 18 months. It certainly

connections are to be supplied the Financial Times, that the to the Iraqi government by pipes and connections will be used on public and private He added: "This new contract follows a £24m order received last April. These orders were the result of many visits we have made to Iraq over the years and particularly the rela-

tionship we have built with the didn't drop into our laps; we've Mr. Gerry Marvin, sales direc- had to work at it very hard."

Homes in Nottingham

BRIDGE HOUSING Society has storey terrace plus four terraced placed a contract worth more houses all grouped round a land Bank Pension Trust for the construction of an eightthan £1m with John Laing Con- central open space. storey office block at Griffin struction for homes for 114 House, in the Strand, London. Due for completion in August 1982, the building will incor-porate shops at ground floor

Contract includes site roads.

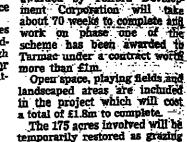
## Busy in the City of London

BOOSTING ITS present workload are contracts worth over £5.5m awarded to Ashby & Horner, with three projects being undertaken in the City of London.

Refurbishment work for Williams & Glyn's Bank includes converting 23-28 Charterhouse Square into a new clearing centre at a value of £3.2m.

Watling Street Properties have awarded nearly £im for refurbishment at 8-10 Queen Street, EC4, and a third similar project is at 50 Leadenhall Street for Glenifer Finance Corporation.

Work outside the City includes a new branch for Halifax Building Society in Kilbura High Road, and a £200,000 branch for an assurance company in Watford, Herts.



## IN BRIEF

land to be held in reserve for

possible future housing develop-

Fairclough Building will modernise 90 council houses and flats in the Booth Hall Road area of Blackley, Manchester, under a £550,000 contract scheduled to take 32 weeks to complete.

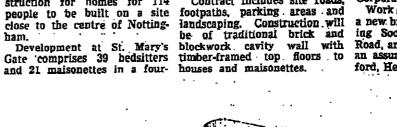
• Sponsored homes for up to 50 families are being built at Andover Hants, by E. Rendell and Sons (Lovell Group) under an £832,000 development programme being carried out in partnership with Test Valley Borough Council.

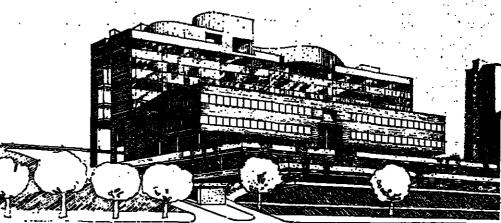
• Turriff Construction has won-£500,000 contract to build 29 flats for senior citizens for MHA Housing Association at Boswell Parkway, Edinburgh.

 English Industrial Estates-Corporation announces that work has started on a number of advance factories. Two terrace unit types are to be built for the Department of Industry on the Gillmore Estate, Liverpool, by Boskalis Westminster - Construction under a contract worth £650.000; a similar contract worth £109.000, has been awarded to Kearton and Sons by the Development Commisby the Development Commission at Haltwhistle, Northumberland; another is worth £128,000 to E. L. Greening and Sons for the Development Commission at Tavistock, Devon.

 Humphreys and Glasgow. Services has been awarded a: £385,000 contract by the North Tyneside MBC for the modernisation and conversion of 44 flats and external works of Phase II South Meadowwale,

● A contract, worth over £im





An impression of Snamprogetti's new headquarters to be constructed on a site near the town centre, station and hus depot in Basingstoke, Hants. The development will be on a 13 metre slope which lends itself to a tiered design and ensures that 200 of the 450

car parking spaces will be under cover. Building will be brickfaced with contrasting curtain walling, and the podium and roof of the complex will be enhanced with landscaping and roof gardens. Tenders are being submitted for various stages of the construction which will be in the £7-£10m range.

Hotel job

awarded

to Lesser

Kent, is worth £725.000.

works and drainage.

FOURTH CONTRACT awarded

to Lesser by Anchor Hotels for

the design and construction of

an extension and refurbish-

ment to the Hunting Lodge

Hotel, Larkfield, near Maidstone,

This will add a further 44

## **Henry Boot contracts**

THE second phase (36,000 sq ft) Ortech) is in connection with a of the Huntingdon town centre coal handling facility at Blyth development scheme has been awarded to Henry Boot by the land. Arrowcroft Group. This £750,000 contract includes the demolioperation by late 1981 the contion of some buildings and the tract involves the construction of an unloading hopper for railrefurbishment of a three storey

A further 12 two-storey shop units will complete the mall formed by the first phase, and an extension to the existing shoppers' car park will be provided over the shop units at roof level. This will include a staircase tower and link bridge to the existing car deck of

borne coal; tunnels for stocking and reclaiming conveyors: foundations for conveyor trestles, bunker and weigh-bridge, and reclaim facility.

Henry Boot has also won contracts for window replacements in flats and maisonettes at Toryglen, Glasgow, for Glasgow District Council (£275,000) and adjoining premises.
Another £750,000 contract hoe, Northumberland works of (awarded by Matthew Hall Kimberley-Clark.

power station in Northumber-

Scheduled to allow plant

# **Inspection made easier**

MAIN GENERATOR propellor could be broken down into of a hydro electric plant in small, handleable pieces capable tain and inspect since the pro-vision of a platform made from Climalloy equipment, reports Stephens and Carter from Kpong, Ghana.

Chief problem here is that the equipment must be assembled three-quarters of the way down the main shaft, and sit on brackets fixed on the sides of the shaft itself, says

It was necessary to provide a on to the sides of the main lightweight assembly unit that shaft.

iffing through a 750 mm h 1,000 mm opening, for erecting under the main propellor.

The company says it designed the platform from Climalloy equipment with an overall area of about 12 metres for contractor Bovis. Standard and special units were fitted together to form a platform directly under the main propeller and sitting on large steel beams which in turn were fixed

## Nigerian port project

WORK ON the huge Port Onne being built to provide both ocean terminal project 25 km temporary and south of Port Harcourt in accommodation for the Nigerian Nigeria is now well under way
Volker staff. Reclamation of the says Royal Volker Stevin. When port area will then commence completed, it will be the country's deepest sea-port with over 50 berths capable of handling bulk cargo of over 50 to 60 thousand tonnes capacity

Over 300 hectares of man- vices; grove swamp are being cleared to provide the necessary office, facilities, and a new village is storage areas.

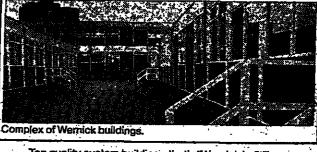
Nigeria's coal.

Ports Authority as well as for using sand fill.

Construction work comprises six quays each 250 metres long, three of which are for general cargo and one each for ro-ro for the import of coking coal traffic, container traffic and bulk and iron ore for the Ajaokuta cargo; buildings for warehouses, steel mills and the export of transit sheds, workshops, stores, traffic, container traffic and bulk offices, customs and port serinfrastructural works: water supply, treatment and distribution, and construction workshop and manufacturing of roads, railroad, parking and

## bedrooms each with private bathroom and new work includes refurbishment of nine existing bedrooms plus pro-North Shields.: vision of new bathrooms, kitchen facilities, conference rooms, staff accommodation, enlargement of the restaurant, bar redecorations and external

has been won by the Totay Group involving alterations at the Yorkshire Electricity. Board's commercial centre in Gelderd Road, Leeds,



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# The acceptance of Robert Fleming

Michael Lafferty on the merchant bank which has joined the City of London's inner sanctum

ON TUESDAY last week one of the most exclusive clubs in the City of London issued a rare public statement. It was very brief: "The Accepting Houses Committee announces that Robert Fleming and Co. Limited has accepted an invitation to become a member of the

No further explanation was offered. Nor was it necessary. Robert Fleming, better known for its fund management business than its banking expertise, had arrived. It is now officially part of the inner establishment of the City of London.

.Quisiders unfamiliar with the quaint ways of the City must conder what it all means. Upon inquiry they will learn that the Arcepting Houses Committee was formed by a group of leading London merchant banks on Wednesday, August 5, 1914, shortly after the outbreak of the First World War Before the First World War. Before the war there had been much trade between Germany and Britain. As a result there were many bills of exchange, or acceptances, outstanding which were unlikely to be met.

Little is known about that first AHC meeting, but it is presumed that after appropriate discussion the chairman called on the Governor of the Bank of Existand who, in the best traditions of the City, no doubt welcomed the new club, and offered it the Bank's support. Whether or not any of the AHC members needed help at that time is not entirely clear. Suffice to say that the AHC was founded at a time of crisis for

Over the years its membership has changed and today it numbers 17 banks, each with a seat on the committee. New members are not admitted every day - the last was Singer and Friedlander in 1973.

To be invited into the club Robert Fleming had to be British-owned, of high repute. with a substantial acceptance business, and independently matter of the eligibility of AHC

Robert Fleming dates from 1873 when a Dundee-born Scot of the same name set un the first ever Scottish investment trust. Several others followed, and the business moved to London in 1890. Mr. Fleming soon became a manager or director of many Scottish and English investment trust companies, and was influential in investing considerable sums into North American railroads, oil and

Investment trust manage-ment remained Fleming's main activity until the 1950s when it became involved in the establishment of a number of unit trusts. In particular it was instrumental in forming the Save and Prosper Group, the largest UK unit trust group. Together with close associates, Fleming now has a 264 per cent holding in Save and Prosper and provides the group, which is based in

it is to be British was well illus-

trated earlier this year when Antony Gibbs, one of the origi-

nel AHC members, was asked to leave after being acquired by the Hong Kong and Shanghai

The significance of indepen-

dent management was at the centre of another AHC resigna-

tion back in 1975 when Brandts

had to go. Brandts faced a finan-

cial crisis at the time and had to be rescued by Grindlays, its

What real advantages accrue to Fleming as a result of AHC membership? "It does carry a

certain amount of prestige," ex-

plains Bill Merton, the Fleming

chairman. Indeed, there are

some people who take the view

that, in London, only accepting

houses should be designated as

Then there is the obscure

Banking Corporation.

main shareholder.

merchent banks.

the same building, with research.

Fund management was taken a stage further in the 1960s when Fleming began to seek clients from among pension funds and other institu-tional investors. This was the most rapidly growing area of the whole business in the past Diversification away from

fund management can probahly he traced back to the late 1960s. First came a corporate finance department and then a move into mainstream banking was made a few years ago when the 1979 Banking Act appeared on the horizon. Fleming established a foreign exchange desk about a

Eurobond trading desk. Another feature of more recent expansion has been a physical presence in over-seas investment markets. Most important was the crea-

year ago, and it also has a

managed. Just how important discount at the Bank of England. In the event of a crisis of confidence affecting any or all of the accepting houses, the Bank of England will meet their bills of exchange. In effect it means that the Bank of England provides a form of guarantee to each accepting house, thus implying that its name is beyond doubt in the market. One consequence is that bills

accepted by an AHC member

command the finest rates in the

money market

Another "advantage" enjoyed by all the accepting housesand a few other banks besidesis the right to a far lower standard of public accountability than normal companies. Quite simply, they do not have to publish accounts giving a true and fair view of their financial position and results. They can have secret reserves, which means that published

trading group of Hong Kong. Jardine-Fleming has offices in Tokyo, Singapore, Manila, Kuaia Lumpur and Jakarta-Fleming's only other overseas office is in New York, where last year it moved a

tion in 1970 of a joint venture

company, Jardine Fleming.

with the Jardine, Matheson

stage further with the formation of a joint venture with Rowe Price, a U.S. investment management company.

Altogether, these different activities earned Robert Fleming over £8m pre-tax in the year to March 1980. Some £3m, of this came from the banking side; a further £3m came from the unit trust business. Advisory and research activities brought in Jardine Fleming profit share

was also £lm. The Fleming group itself employs almost 350 people; Jardine Fleming accounts for

capital is understated, and may smooth results from one year to the next.

This latter facility is interpreted in different ways by accepting houses. Some, like N. M. Rothschild, take the view that there is no point in publishing any profit figure, other than the amount of the annual dividend. Others, like Kleinwort

Either way the accounts of the accepting houses have a low whole or credibility rating. To this should extent their managements are discount. protected from the same degree of outside scrutiny for their successes and failures as are other companies.

Robert Fleming now finds itself in the odd position of being the only accepting house which is required by law to pub- Morgan Grenfell, Schroders, Hill lish true and fair accounts. This Samuel, Hambros, and maybe is because it was formed and run as a fund management com-

Not wishing to upset anyone Companies Act until it became an accepting house. But now that it is in the club, it has made its application to the Depart-ment of Trade. The outcome will be of some interest, since the Government is not known to have granted any accounting exemptions since 1969.

So it is clear that being an accepting house brings a bank certain benefits at the present time. These are both tangible, as related above, and intangible. in the nature of added prestige. On top of all this, the chairman of each accepting house is said have direct access to the Governor of the Bank of Eng-- a facility which is not available to all banks in the City.

But does any of this matter? Some people in the City take the view that the AHC is an outof-date idea, that it is just another example of the clubs which divide British society, and that in any case it is becoming increasingly irrelevant. Many clearing bankers, for example, have little time for the elitism of the accepting

There seems little doubt that the significance of AHC membership has been somewhat in Benson, like to publish figures decline in the past decade. Now which reflect "a trend." decline in the Bank of England is in the process of reconsidering the whole question of whose bills be eligible for re-

Again, looked at from the point of view of its total mem-bership, the AHC is a mixed bag. It contains a handful of major names in the market. Fleming's research material place. These include banks like shows fairly clearly that it has Kleinwort Benson, Warburgs. one or two more. But many of the other members are so small

pany until recently, and only as to go virtually unnoticed in became a recognised bank a the City from one year to the

On this basis Robert Fleming Fleming refrained from asking certainly deserves to be in the for exemption from filing club. Its balance-sheet with accounts as required under the total assets of £223m puts it slightly above Rea Brothers and Arbuthnot Latham in size. More to the point, perhaps, is

Fleming's pre-eminence in the field of fund management, one of the three traditional areas of activity of the accepting houses -the others being corporate finance and banking. At present it has funds totalling some £3.5bn under management or advice. In addition Jardine Fleming, its joint venture with Jardine, Matheson in Hong Kong accounts for a further £2bn. These figures show that Fleming is certainly one of the largest fund managers among the

accepting houses. It may be presumed that this is because it is an above average performer in this field. About a year ago Rowe Price, one of the larger U.S. fund managers, entered a joint venture with Fleming to offer international fund management services to U.S. funds, particularly pension funds, seeking international diversification. Evidence to date suggests that Rowe Price-Fleming is more than holding its own against some of the older accepting houses which have also entered

One feature of Fleming's success in fund management could well be its concentration on research. Some 25 executives are currently engaged in this, and there is evidence that their abilities extend beyond those of some other banks operating in the international fund manage-ment field. For example, Fleming's research material an expertise not just in judging currencies but also an ability to judge companies in the same inon an international

this market.



Bill Merton, chairman, and Joe Burnett-Stewart, deputy chairman, of Robert Fleming

Corporate finance, or the provision of advice to companies on their financial affairs, and takeover bids and deals, is another area where Fleming has in recent years. A decade ago it had only a handful of clients. Today the figure is closer to 70, and includes major companies like Distillers and Tarmac.

With two of the three tradi-tional activities of the accept-Fleming should get into banking, and in particular into the helps to distinguish the top merchant banks.

The move came about two years ago, and was partly defensive. "We had long regarded ourselves as one of the leading been getting a name for itself merchant banks in the City. We did not want to be prevented by the 1979 Banking Act from describing ourselves as such, explains Bill Merton, who retires as executive chairman in a few months. This Act for the first time defined the type ing houses already under its of organisation that could call wing, it was only logical that itself a bank. But Joe Burnett-Stuart, his successor, says the move was not merely defensive. We had a growing realisation business of accepting bills of "We had a growing realisation exchange — an activity which of the opportunities available and there was a lot of goodwill in our favour."

## **Business courses**

International Capital Marketsthe opportunities in London without exchange controls. London. November 25. Fee: £120 (plus VAT). Details from European Study Conferences, Kirby House, 31, High Street East: Uppingham, Rutland, Fee: £310. Details from Course Leicestershire, LEIS 9PY. Secretary, Finance and Account-Copyright Protection in Indus-ing Programmes. University of trial Designs, London. Decem-Study Conferences, Kirby House, Rutland LE15 9PY.

Sending People Bahrain. December 13-15. Fee: £425. Details from ORC (UK). 1 Albemarle Street, London WIX 3HF.

Advanced Management Accounting. Bradford. December 7-12. centre. Any money saved goes ing, the potential for savings is straight to profit." This is the enormous. Frequently a purview of Lindsay Hackett, senior chasing department is responsible for 50 to 60 per cent of computer and computer services subsidiary of the U.S. hillions of pounds a year are computer and computer services subsidiary of the U.S. company of the same name.

Certainly Hackett can vouch for the profitability of purchasing in a personal sense since his knowledge of the business bas just won him a £1,000 first prize in a "Buyer of the Year" com-

'I SEE purchasing as a profit business are increasingly argubeing spent by such depart-ments. Even if only 1 or 2 per cent of a company's purchasing bill is trimmed in a year the impact at the profit level can be significant.

Hackett is the fourth winner ing Programmes, University of Bradford Management Centre, Heaton Mount, Keighley Road, Bradford, West Yorkshire BD9 4.IU.

In a suyer of the fear coin- of a competition which was instigated in 1977 and, at 24, is instigated and instigated in 1977 and, at 24, is instigated in 19 of a competition which was instigated in 1977 and, at 24, is

# Winning ways of buying

economics University. joined EMI for two years before equipment to the value of tween £7m and £8m a year.

Direct, private communications with key personnel on the move can be vital. Directors, senior

from Warwick Holloway — managing director, inium stockholding companies
From there he finance and supplies, the British whose chairman and managing
or two years before Steel Corporation—pointed out director, Bryan Duffield, started moving to Control Data 14 when presenting the Buyer of his working life in the purchasmonths ago. There, he is helping to co-ordinate the buying cent of people now passing the pany. Institute of Purchasing's exams have done higher education of As the requirements of pur- some sort, gaining degrees or

director, Bryan Duffield, started his working life in the purchas-

Until this year, the competientrants worked for. This year. however, it was split into three

the different characteristics of companies and provide a more even opportunity for buyers in any size of company to emerge at the top.

The idea was to take account of

Hackett was the winner of the middle category, as well as being overall winner. Winner of the biggest company category was Helen Laurence, area buying manager for West Africa with tion made no distinction as to the Crown Agents, while the the size of company that winner of the smallest company category was Keith Blakey, purchasing controller at Stanley companies with Power Tools, Cramlington.

Nicholas Leslie



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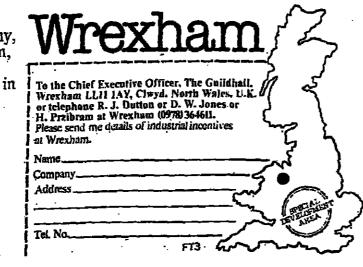
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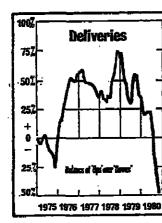
Halifax House, Coronation Road, High Wycombe, Bucks, AP123SE, England. Telephone: (0494) 23416 Telep: 83622

GENERAL OUTLOOK

# Slightly less pessimism

THE COMPANIES quizzed in last month's survey-in nonelectrical engineering, chemicals and oils and the shipping and transport industries - reported slightly less pessimism about the business outlook than when they were last questioned in

The index covering general confidence about prospects has thus risen from the very depressed levels of the last two months. This seems, however, to reflect special factors rather than a general turnround in industry's forecasts about the future, which remains heavily tinged with foreboding. reason for slightly



greater optimism was the feel ing that the recession was bo toming out and that the economic position could hardly get worse. But low demand high interest rates, the high exchange rate and the situation in the Middle East continued to weigh on confidence.

Chemical companies have been particularly hit by the downturn in world trade. The bleak industrial outlook was also reflected in a further drop in the index covering optimism about prospects for the UK economy. This had been fairly buoyant earlier in the year. Chemicals and oils were particularly gloomy about the

	@ Sta	tistical M	laterial (		t Taylor		Group Ltd.
GENERAL BUSINESS	. 4	monthly	moving	total		October	1980
Are you more or less optimistic about your company's prospects than you were four months ago?	July- Oct. %	June- Sept.	May- Aug.	Apr July %	Eng. (non- elect.)	Chemical & Qils	Shipping s and Transport
More optimistic	21	16	15	22	26	21	65
Neutral	25	25	27	33	19	30	9.
Less optimistic	54	59 .	58	45	55	49	26

EXPORT PROSPECTS (Weighted		ports)	. moving	total	•.	October [1	780
Over the next 12 months exports will be:	July- Oct. %	June- Sept.	May- Aug.	Apr July %	elect.)	Chemicals & Oils	Shipping and Transport
Higher	51	50	48	48	42	53	88
Same	30	27	21	20	45	20	
Lower	, 17.	21	29	30	. 13	17	. 12
Don't know	2	2	2	2	-:-	10	_

## ORDERS AND OUTPUT

## Steep drop in demand

ALL THREE sectors reported a steep drop in new orders as a result of the deepening reces-The index covering orders received over the past four months plummeted to a record low. The sharp downturn

demand was also reflected in a steep decline in recent deliveries. Partly because of the low level of recent orders, companies on the whole said they expected order books to increase in size from present

Among factors bemoaned by individual groups, the enginecring companies said lower orders from nationalised industries and constraints on capital

.	60,2		=		=			- 
	40%		A	-0.	A	Δ		
	20,7		4			1		
	+	$f^{\perp}$	_	Ord	ier		7	
	20%	-	bdas	Boo	ks First	ress'	-	
	402	1975 1			لــــا	لبيا	1980	

investment were The chemical sector con

plained of competition from imports made from cheaper energy sources and general de consumer chemicals on account of high interest rates. General price cutting, par

ticularly for passenger traffic, a drop in oil shipments caused by the Gulf war and declining iron ore deliveries because of the steel recession, were al cited as severe depressants in the shipping and transport

Plans for increases in output over the next 12 months have been scaled down drastically in

**STOCKS** 

Raw materials and components over the

Manufactured goods over the next 12

-	Don't know		. 2	2	2	2	·-	10	
	NEW ORDERS		• .	1.	-	_			
	Wall Citablia		-	4 montely	moving	total		October 1	980
	The trend of new orders in the past 4 months was:		шу- Ост. %	June- Sept.	May- Aug.	Apr July %	Eng. (inon- elect.) %		Shipping and Transpor %
	Up		14	- 18	25	29			33
Δģ	Same		13	.15	13	15	6		_
_	Down		- <b>59</b> ·	48	39	29	49	100	49
m- m	No answer	<u> </u>	14.	. 19	23	27	· 45	. • • • • •	18 ***
er le-	PRODUCTION/SALES TURNOV	/ER	:					-	

Those expecting production/sales turn- over in the next 12 months to:	July- Oct. %	June- Sept.	May- Aug.	Apr July %		hemical & Oils %	Shipping s and Transpor %	
- Rise over 20%	2	. 3.	3	3	. —	·	_	
Rise 15-10%-	2	2	1	5			· _	
Rise 10-14%	. 5	5	. 3	2			8	
Rise 5-9%	· 13·	, 10 .	9	12	26	28	8	
About the same	54	64	64	64	· 21 ·	21	37	
Fall 5-9%	-6	5	6	4	16			
Fall over 10%	11	. 6	6	3,	2	30	40	
No exercised	7		•	7	7f	77	7	

## CAPACITY AND STOCKS

## Well below planned working

MOST COMPANIES are still working well below planned output levels. The index measuring capacity utilisation, which has been falling steeply this year, fell slightly further last month although the drop seems to be levelling off.

All three sectors say the recession is impeding efforts to plan ahead. Nearly half the companies questioned last month said they had plant or machinery standing idle because of weak demand.

More companies are reporting that production is being affected demand shortages rather

CAPACITY WORKING

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60%	The same		- •	П
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80.		L		لسن

labour or materials. and transport secther more hopeful from higher exports onths. But the high te is seen generally er on chances for es—particularly in sitive oil and chemi-

ts indicated that nning down stocks ash, continuing the vious months. This has brought some adjustment of stocks to more favourable levels, particularly for chemical

Production	than lack of l The shipping tor was rati about relief f
hereps oling septy lasters less everge = .  40.5	in coming mo exchange rate as a dampen foreign sale the price-sens cal industry.
80:	Respondent they are run to conserve contrend of prevented by the conserved to the conserved

4 monthly moving total

-			
<b>FACTORS</b>	CURRENTLY	AFFECTING	PRODUCTION

Stay about the same

Stay about the same

No answer/no factor

	јшу- Ост. %	june- Sept. %	May- Aug. %	Apr July %	Eng. (non- elect.) %	Chemicals	Shipping and Transport
Home orders	94	95	91	87	100	100	·49
Export orders	56	55	56	49	88	72	49
Executive staff	3	1	2	4		14	
Skilled factory staff	6	8	8	9	6		
Components	1	1		1		· <u>-</u>	
Raw materials	6	6	- 6	9			8
Production capacity (plant)	6	8	.8	7 .			8
Finance	6	6	5	3			
Others	. : 3	- 4	2	4			33
Labour disputes	. 8	8	10	.8	6	<del></del> _	

4 monthly moving total

## INVESTMENT AND LABOUR

Above target capacity Planned output

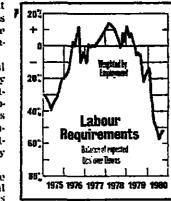
Below target capacity

## Further drop in capital spending

INDUSTRY IS continuing to cut back sharply its future plans for capital investment as the recession littes into business con-

The engineering and chemical and oil sectors were especially inclined to cut back on investment spending, although shippine and transport was less gloomy. The investment intentions index has been plummeting steeply practically every

month this year. Plans for new factories, office blocks, development of an oil field and acquisitions of vehicles



and ships have all been axed. according to the respondents. The index measuring companies' planned labour requirements, which has been declining fast in recent months, stabilised

slightly last month. The engineering, chemical and oil sectors were all more inclined to expect their workforces to decrease. But the shipping and transport group, which had been particularly pessimistic about labour force prospects when last asked in June, generally expected no further

June- Sept.	May-	Apr.	Eng.	- · ·	Shipping
% %	Aug.	July %	elect.)	Chemicals & Oils	and Transport
6	8	8		2	
32	26	30	58	44	99
60	65	61	42	54	7
2	1	1.	-	<del></del>	
	2	% % 6 8 32 26 60 65 2 1	% % % 6 8 8 32 26 30 60 65 61 2 1	%     %     %     %       6     8     8     —       32     26     30     58	%     %     %     %       6     8     8     —     2       32     26     30     58     44       60     65     61     42     54       2     1     1     —     —

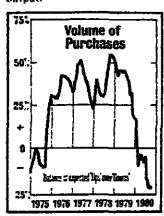
Those expecting capital expenditure over the next 12 months to :	july- Oct. %	June- Sept. %	May- Aug.	Apr July %	Eng. (non- elect.)	Chemical & Oils %	Shipping and Transport
increase in volume	22	26 .	30	29	<u> </u>	39	
increase in value but not in volume	6	10	14	18			21
Stay about the same	34	23	18	17	36	55	38
Decrease	29	. 33	33	32	54	5	41
No comment	9	8	5	4	10	Ţ	

## COST AND PROFIT MARGINS

## Smaller wage rises expected

of increases in wage costs and increases in hourly wage rates of planned price rises have been every the next year has falled of all public companies.

The all-industry figures are the drop in demand and per cent.



Very few companies now expect increases in water of more than 15 per cent over the

COMPANIES expectations both index for the median expected FT Actuaries index which Y

There has been a similar drop in expectations about

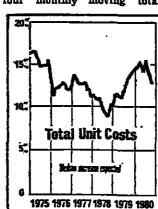
increases in unit costs. All three sectors forecast smaller price increases over the next 12 months than they had done last June. The figure for the median expected increase has dropped to about 12; per cent from above 13 per cent.

Partly because of the slowdown in cost increases, companies were more hopeful of increasing profit margins during the next 12 months. This index showed an increase for the first time since April.

The business opinion survery is carried out for the Financial Times by the Taylor Nelson Group and is based upon interviews with senior executives.

next 12 months and the engineering sector was particularly companies are covered each hopeful of recording single-month in turn. They are drawn figure was rises. The control from a sample hand month in turn. tigure wage rises. The general from a sample based upon the Ewell, Epsom, Surrey.

four monthly moving totals



covering 120 companies in 11 industrial sectors (mechanical Th engineering is surveyed every ne

second month).

# COSTS

			4 monthly	MOATUS	total		October 1	980
Wages rise by :		July- Oct. %	june- Sept.	May- Aug.	Apr July %	Eng. (non- elect.)	Chemicals & Oils %	Shippin and Transpo
	5-9%	10	- 6	4		68	7	
<u> </u>	10-14%	45	42	28	20	20	51	67
	15-1 <del>9</del> %	31	35	47	62		42	
· · · · · · · · · · · · · · · · · · ·	20-24%	6	10	13	11			
	No answer	. 8	7	8	7	12		33
Unit cost rise by:	04%	2		1		_		
	5-9%	17.	16	8	6.	28		7
	19-14%	33	37	39	38	29	23	11
	15-19%	24	32	35	38	32	49	40
	20-24%	1	2	3	. 3			
	30%					2	_	. =
	Same	. 3	_ 1				14	
	Decrease	1	1	1				
•	No answer	17	15	13	15	9	14	48

PROFIT MARGINS

	4	monthly	moving.	total		October 1	980
hose expecting profit margies over the ext 12 months to:	july-, Oct. %	June- Sept.	May- Aug. %	Apr July %	Eng. (non- elect.) %	Chemicals & Oils %	Shipping and Transport
Improve	22	19	19	28		49	66
Remain the same	, 38	- 38	38	30	35	21	23
Contract	32	37	36	35	. 59	16	
No comment	- 2	. 4	7:	7		74	77

## Newman Industries finance director

Mr. Peter J. Hughes has joined two divisions responsible for the NEWMAN INDUSTRIES as technical services and produc-finance director. Mr. Hughes has tion. The Board of the new combeen a consultant to the company is Mr. Clive M. Sasserath, pany since August. He was prometer. Kenneth. R. Barker, Mr. viously finance director of Cope. Michael R. Coombs, Mr. Peter D. Allman International.

re-appointed to serve a second-term as chairman of the ECONOMIC DEVELOPMENT. COMMITTEE FOR THE CLOTH-ING INDUSTRY. New members of the EDC are: Mr. G. N. Hague, chairman of the Overalls Manu-facturers Association, Mr. T. E. Harmer, chairman of the Cloth-ing Manufacturers' Federation, Mr. H. Leffman, member of the Executive Committee of the Corsetry Manufacturers' Association, Mr. J. Manufon, chairman of the executive Board of the NUTGW and Mr. P. Robinson, assistant' secretary at the Department of Industry, responsible for the Industry, responsible for the clothing industry.

Mr. E. W. Summers, a director of the electrical division of COURTNEY POPE (HOLD INGS) has been appointed chairman of the companies. Mr. L. R. Courtney has retired as chairman and from the Board.

Mr. W. H. Wainwright has been appointed director of syn-dications of BANQUE ARABE ET INTERNATIONALE D'IN-

& Oils Transpo

30

Minor and Mr. Trevor J. Rout-

Jedge, CIATION. he foined the Board of both Provincial and Provincial Life in Mr. Basil Feldman has been 1977. Prior to his new appointed to serve a second ment, he had been chief general manager since December 1979.

Mr. Merrie Prince, managing director: of Shepherds Grove Mashrooms, has been appointed chairman of the MUSHROOM GROWERS ASSOCIATION. Mr. Peter Cracknell retires as chairman but remains on the executive committee as chairman of the marketing and publicity committee. The new vice chairman is Mr. Harold Linfield, of A. G. Linfield. Mr. Hugh Barton of Winterpick Mushrooms, has been re-elected treasurer.

Mr. W. L. Young has been appointed chairman and Mr. (
R. J. Pritchard, managing director, of WEIR-POLYPAC, Mr.
J. A. F. Litherland becomes design and development director.
Mr. R. K. Jeavons, executive director, engineering, and Mr. A. Glasson, executive director, manufacturing, join the Board.

Marsden W. Hargreave and Co., stockbrokers of Blackpool, and W. L. B. Hale and Co., of St. Annes-on-Sea, are to merge on November 10. Partners of both concerns will form the new 

## TO THE HOLDERS of 5% Guaranteed Convertible Debentures, due 1988 of 💛

Rockwood International, Inc. (Formerly Levin-Townsend International, Inc.)

Notice is hereby given pursuant to the Indonture dated as 87 August 1, 1968, as amended and supplemented, (the "Indenture") under which the 6% Guaranteed Convertible Debentures, due 1988 (the "Debentures") of Rockwood Informational, Inc. ("International") guaranteed as to payment of principal, premium, if any, and interest by Rockwood as to payment of principal, premium, a any and interactly notewood.

Computer Corporation, a Delaware corporation (the Gairantor), were issued, that as a result of certain Adjusting Events and pursuant to the anti-dilution provisions of the Indenture, the Debentires are convertible on and after March 31, 1980 at a conversion price which has been increased from \$19.58 per share to \$20.67 per share.

ROCKWOOD COMPUTER CORPORATION a Delaware corporation

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-BADISCHE KOMMUNALE LANDESBANK INTERNATIONAL S.A.

## GENERAL SHOPPING SA

Luxembourg

According to the decision taken by the Annual General Meeting of 29th October 1980

a dividend of US\$12.— per share.

will be paid for the business year 1979/80. This dividend is payable with effect from 3rd November 1980 against presentation of coupon no. 18.

Payment will be made, without charges, by WILLIAMS & GLYN'S BANK LIMITED, LONDON and by all banks assuming the financial service for the

company in other countries. Payment in the United Kingdom will be made in Pounds Sterling, the Dollar being converted at the current rate.

Luxemburg, November 1980. For the Board of Directors: R. H. LUTZ, Chairman

HUBRECHT

TRUST COMPANY

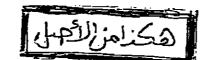


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a hundred years ago. Since then we have grown into a reliable TRUST- &

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# CONTRACTS AND TENDERS

## DEMOCRATIC REPUBLIC OF THE SUDAN SEA PORTS CORPORATION PORT SUDAN DEVELOPMENT — STAGE 2

INTERNATIONAL PUBLIC TENDER FOR

(A) MAIN CIVIL WORKS CONTRACT,
(B) EXISTING GRAIN SILO UPGRADING CONTRACT,
(C) HEADQUARTERS OFFICE BUILDING CONTRACT,
(D) PRIVATE ELECTRICAL POWER GENERATION WORKS CONTRACT

NOTIFICATION OF PREQUALIFICATION

Notice is hereby given that Livescy and Henderson, Consulting Engineers to the Sudan See Ports Corporation, will receive applications from construction firms from Member Countries of the International Bank for Reconstruction and Development and from Switzerland and Taiwan who are hereby invited to apply for pregualification to participate in the bidding for the works described below at Port Sudan. DESCRIPTION OF THE WORKS

(a) Main Civil Works Contract

- Construction of two new deep-water berths, with associated dredging and reclamation Construction of new oil terminal to accept vessels up to 80,000 dws, with associated dredging and reclamation

-- Completion of roll-on/roll-off berth

Seaward extension of existing Berths 17 and 18
 Redevelopment of land areas behind existing and new quays, including road access improvements and surfacing of open storage areas (about 300,000m²)

- Lifting, refurbishing and relaying rail track (about 8,000m);

-- Construction of a number of small buildings Provision of electrical and other sarvices to new facilities and improvements to existing electrical

Minor civil works in connection with Grain Sile Upgrading

(b) Grain Silo Upgreding Contract

- Upgrading existing Grain Silo import and export capacity

- Provision of new ship loader/unloader -- Extension of import and export conveyors

- Improvement of rell wagon intake system

- Associated electrical work

Note: Associated civil angineering work will be under Civil Works Contract

(c) Headquarters Office Building Contract
— Construction of five-storey office building, comprising two interconnected blocks (floor area about 6,400m2)

- Construction of conference hall and caletena (floor area about 500m2)

- Provision of central air conditioning system (to be carried out by a nominated sub-contractor) Construction of an electrical sub-station, including provision of standby generation

Landscaping works (d) Private Electrical Power Generation Works Contract

Provision of standby generation facilities for quay cranes and grain silo complex, and replacement of marcury are rectifiers ("Top Priority" Works).

Provision of standby generation facilities to all other existing port electrical systems ("High Priority" Works)

- Improvements to electrical systems in main port buildings ("Medium Priority" Works)

- Improvements to electrical systems in transit sheds and minor port buildings ("Low Priority"

Discussions between the Government of the Democratic Republic of the Sudan and the Interretional Development Association are proceeding with the object of arranging a Credit that would provide for assistance in financing the cost of the Works. FINANCING OF THE WORKS

CONSTRUCTION PERIOD
The following are the anticipated periods of construction: - Main Civil Works Contract: 27 months

- Grain Silo Upgrading Contract: 18 months

- Headquarters Office Building Contract: 24 months

- Privata Electrical Power Generation Works Contract; 24 months

CONSTRUCTION PROGRAMME

The Main Civil Works will be programmed in a sequence acceptable to Sea Ports Corporation and will interfere as little as possible with the operation of the Port. The Grain Silo Upgrading Works will be undertaken in an operating allo complex and will necessitate close co-operation with the silo operator.

CONTRACT CONDITIONS
The Conditions of Contract for all Contracts will be generally to FIDIC (International) Conditions. RETURN OF PREQUALIFICATION DOCUMENTS

Completed prequelification documents shall be returned in a sealed envelope by noon on Thursday, 41 December 1980 to Livesey & Henderson, Albury House, Albury, Guildford, Surrey GUS 98P, England. ACCEPTANCE
Prequelification shall be at the discretion of the See Ports Corporation.

PREQUALIFICATION DOCUMENTS

Documents may be obtained from Livesey & Henderson, Albury House, Albury, Guildford, Surray GUS 98P,

in the case of National Contractors, documents may be obtained from Sea Ports Corporation, P.O. Box 2534,

HASSAN A. HASSAN DIRECTOR OF PROJECTS for CHAIRMAN SEA PORTS CORPORATION

EMPRESA NACIONAL DE ELECTRICIDAD S.A

**ENDESA** 

REPUBLIC OF CHILE

**COLBUN PROJECT** 

TRANSMISSION SYSTEM

INTERNATIONAL PREQUALIFICATION

Empresa Nacional de Electricidad S.A., ENDESA, intends to invite tenders during 1981 for the

Colbun Transmission System. The Colbun Project entails the construction of two hydroelectric

power stations with a combined capacity of 490 MW in its first stage. The Colbun Transmission System, which will represent a significant expansion of the National Grid, will consist of:

220-KV Switchyard at Bolbun Substation.
 220-KV Switchyard at Machicura Substation.
 500-KV Switchyard at Colbun Substation, including 220/500-KV transformers.
 500-KV Single-Circuit Transmission Line Colbun—El Rodeo—Alto Jahuel (275 km).
 Modification of the existing transmission line Colbun-Alto Jahuel of 220-KV double-circuit to a single circuit of 500-KV (235 km).

ENDESA wishes to provide opportunities for private investment and, therefore, intends to invite tenders for the Colbun Transmission System on two alternative bases:

ENDESA will contract, on a turnkey basis, the construction, supply, erection and commissioning of the Transmission System. Bidders will be required to offer finance in support of their bids.

ENDESA will contract a power transmission service with a concession company, which will construct for its own account and own the 500-KV section of the Transmission System (but not the existing 220-KV transmission line, once upgraded to 500 KV). In addition, ENDESA will erection and commissioning of the remainder of the Transmission System, with finance to be

contract, for its own account, with the same concession company the construction, supply offered by bidders. In evaluating bids, other conditions being equal, ENDESA will give preference

ENDESA invites PREQUALIFICATION applications for either or both alternatives. Applications may be from individual companies or from consortia, but applicants must demonstrate their ability to undertake the design, construction, supply, erection and commissioning of the entire

In the Construction and Service Alternative, ENDESA wishes to receive proposals from applicants

as to the form and content of the power transmission service contract between ENDESA and the

concession company. This will assist ENDESA in drawing up the bid specifications on an

Under either alternative, ENDESA will invite bids only from prequalified companies and

PREQUALIFICATION documents may be requested from Monday, 10th of November, 1980 by

Jefe Departamento de Estudios para la Construcción

Santiago, Chile

One World Trade Center, Suite 5151

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The information requested in the PREQUALIFICATION documents must be received by

EMPRESA NACIONAL DE ELECTRICIDAD S.A. P.O. BOX 1392, SANTIAGO, CHILE

TELEX: 40491-NDESA-CL

Santa Rosa, No 76, Piso 11

... ENDESA's Representative in New York

In addition, the PREQUALIFICATION documents may be also requested from:

500-KV Switchyard at Alto Jahuel Substation, including 220/500-KV transformers.
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ALTERNATIVE 1: CONSTRUCTION

to the Construction and Service alternative.

Prices for each set of these documents are as follows:

ENDESA not later than January 27th, 1981.

Transmission System.

letter, telex or in person from:

equitable basis.

ALTERNATIVE 2: CONSTRUCTION AND SERVICE

## SIDERURGICA DEL ORINOCO, C.A. **SIDOR**

## INTERNATIONAL PUBLIC BIDDING AS IS, WHERE IS

ITEM 1 - Twin-screw passenger ship "Cristoforo Colombo," 29,429 gross tons, built 1954-7. The ship is moored at the premises of Sidor C.A., at Matanzas, Ciudad Guayana: Estado Bolivar, Venezuela, and used since May, 1977, as a hotel accommodation vessel. Classification Lloyd's: + 100 Al, + LMC, + Lloyd's RMC. "Accommodation Ship," "Laid Up."

ITEM 2 -- Two pontoons: "Gemini Alpha" and "Gemini Beta," 262 gross tons, built 19764, moored as above. Classification Lloyd's: + 100 A " Pontoon."

ITEM 3 — Floating bridge, max. trim 10%. Length 129.2 m, width 5.74 m, capacity 32 tons, axle load 8.5 tons, consisting of:

A)-Two sections length 30.8 m each,

B)-Two sections length 34.2 m each. C)-Three floating units 20.0 x 5.0 x 1.5 m each.

A. SALE CONDITIONS

1. As is, where is. Payment by irrevocable letter of cradit in the name of C.V.G. Siderurgica del Grinoco, C.A., confirmed by a Vanazuelan bank accepted by Sidor and opened at the moment of awarding of the bid.

 Bids should include the offered price for each liest and preference will be given to those bids which comprise all offered items. However, bids for individual items will also be accepted. 4. The offered items may be inspected by request to Eng. Victor Gallo, No. A07-308 Sidor. Matenzas, Estado Bolivar, Venezuela. Tels: 068-991812, 086-991440, and 086-991827, Telex No. 86374.

B. BIDDING REQUIREMENTS
Each ofter should be accompanied by a bidding bond in favour of C.V.G. Sideringica del Orinoco.
C.A., (Sider) and issued by a bank accepted by Sider egainst a value of:
For Item 1.0 — US\$200.000.00
For Item 2.0 — US\$ 10,000.00

C. AWARDING OF THE BIDS Each item will be awarded to the highest bidder upon the opening of the bids, except for the preference case. (Total bid pointed out in A.3 of sale conditions, in which Sidor will select its most convenient bid.)

Sidor allows one week laytime upon completion of transfer. D. OPENING OF THE BIDS

Bids should be forwarded in triplicate with one bid per envelope and will be received in the bidding committee conference room of the bidding committee conference of Sidor at Matenzes, Cluded Guayana, Estado Bolivar. Venezuela on the 28th November, 1980 at 10:00 a.m., Venezuelan time. RESTRVE CLAUSE

RESERVE CLAUSE Sidor reserves the right to extend or to suspend the bidding process, or to take any other decision regarding the bidding process on its behalf, and in this case, no claims from bidders or third parties will be accepted. In addition, the entire process is subject to the obtainment of the normal Government permits.

PLANT& MACHINERY

12in x 30in x 35in wide x 400 hp Four High Reversing Mill.

5in x 12in x 10in wide variable speed Four High Mill.

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NARROW STRIP ROLLING MILL

## **CONTRACTS** AND **TENDERS** APPEAR EVERY MONDAY

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phone JOHN WISBEY

01-248 8000 Ext. 316

## 6in x 16in x 20in wide Four High Mill. 150 x 100 mm x 15 hp Two High Tape Rolling Mill. 110 x 100 mm x 10 hp Two High Rolling Mill. 2) 10in x 8in x 75 hp Two Stand. WIRE FLATTENING AND

1) ROLLING MILLS

3) DECOIL FLATTEN, AND CUT/LENGTH LINES. (SHEETS) 1500 mm x 0.5 mm / 32 mm x 10 Ton / 15 Ton Coil. 1100 mm x 2 mm / 8 mm x 5 Ton Coil. 1500 mm x 0.5 mm / 2 mm x 15 Ton Coil. 750 mm x 1 mm / 3 mm x 5 Ton Coil. 400 mm x 0.5 mm / 3 mm x 2 Ton Coil.

4) DECOIL STRAIGHTEN & CUT/LENGTH LINES (ROD). 32 mm to 16 mm diameter x 2 Ton Coil. 16 mm to 6 mm diameter x 1 Ton Coil.

5) SLITTING LINES

1220 mm x 3 mm x 5 Ton Coil. 920 mm x 5 mm x 10 Ton Coil, 920 mm x 2 mm x 2 Ton Coil. 300 mm x 1.5 mm x 1 Ton Coil. 36in and 48in Sheet Slitters.

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6 Block, in line, variable speed (560 mm dia x 25 hp D.C.) 9 Block, non slip cumulative (610 mm dia x 25 hp A.C.) 8 Block, non slip cumulative (560 mm dia x 25 hp A.C.) 6 Block, non slip cumulative (356 mm dia x 7.5 hp A.C.) Horizontal Drawblock variable speed (915 mm dia x 75 hp D.C.) Horizontal Drawblock variable speed (456 mm dia x 15 hp D.C.) Vertical Drawblock (2) variable speed (610 mm dia x 25 hp D.C.) 13 and 15 Die Cone Type & Spooler, 4500 ft/min (2 machines). 9 Die Cone Type & Finishing Block, 750 ft/min.

7) BAR REELING & STRAIGHTENING MACHINES Platt 25 mm to 116 mm capacity.

Robertson 9 mm to 32 mm capacity. Plate 6 mm to 18 mm capacity. 8) SHEARS AND GUILLOTINES

1220 mm x 25 mm Cincinatti Plate Shear. 510 mm  $\times$  16 mm / 50 mm  $\times$  50 mm PELS Scrap Shear. 2.5m x 3 mm high speed mechanical Guillotine, Keetone.

9) SHEET LEVELLING ROLLS 920, 1150 and 1850 mm wide. 10) HYDRAULIC SCRAP BALING PRESS, Fielding & Platt.

11) FORGING HAMMER 3 Cwt, slide type, Massey.

12) AUTOMATED COLD SAW, non-ferrous, Noble & Lund.

13) ROTARY SWAGING MACHINE, 25 mm capacity.

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WICKMAN 6 SP AUTOMATIC Ifin rebuilt to maker's limits. WICKMAN 6 SP AUTOMATIC I in rebuilt to maker's limits. WICKMAN 6 SP AUTOMATIC 2 in recon. to maker's limits. 200 TON AND 450 TON HYDRAULIC PRESSES. 200 TON MECHANICAL PRESS Sin stroke, as new. WEIDEMANN 75 TON TURRET PRESS capacity 120in x 60in x quarter-inch thick 32-station.

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AUCTION

Under cover

## 'JACKSONS' **AUCTION**

Refreshments

PLANT AND MACHINERY AUCTION WEDNESDAY NEXT, 5th NOVEMBER, NOON

Entries will include 50 skip and demountable vehicles. Many 77/78/79/80 Bedford, Leyland, SED/ATK, Foden 8WHL and other types, also TR units and trailers, tippers, box vans. Some new vehicles, trailers, flats and tippers, skips. View: Monday/Tuesday, November 3/4.

Private treaty office on site. Auction site on M5. Junction 2 island midway Wolverhampton-Birmingham Catalogues: 021-552 2803 Telex: 336193

## **COMPANY NOTICES**

## Compagnie Financiere de Paris et des Pays-Bas

NOTICE TO SHAREHOLDERS

The Board of Directors of the Company has decided to distribute an interior dividend for the Financial Year 1980, payable from 17th November, 1980 at the rate of F.Frs. 7.00 per share of F.Frs. 100 nominel.

Against presentation of Coupon No. 173, residents of the United Kingdom will receive F.Frs. 5.64 per certificate of F.Frs. 100 nominal (see Settlement of Additional Poyments below).

Coupons will be paid at the rate of exchange ruling on the day of presentation.

Bearer Deposit Certificates

Against presentation of these Certificates for marking of Square No. 10 residents of the United Kingdom will receive F.Frs. 0,282 per Certificate of F.Frs. 5 nominal (see Settlement of Additional Payments below).

Certificates will be paid at the rate of exchange ruling on the day of receipt of the dividend on the underlying shares deposited in France.

Settlement of Additional Payments

Under the terms of the Double Taxation Convention between France and the United Kingdom, residents of the United Kingdom will receive, subject to completion of Form RF-4 GB, on or after 15th January, 1981 an additional F.Frs. 3.285 par Bearer Share or F.Frs. 0.16425 par Bearer Deposit Certificate.

Certificate thus increasing their dividend entitlements to F Frs. 8.925 per share or F.Frs. 0.44825 per Bearer Deposit Certificate.

share or F.Frs. 0.44625 per Bearer Deposit Certificate.

Holders are advised to submit form RF-4 GB at the time of presentation of Coupons and/or Bearer Deposit Certificates. Nevertheless for Coupons detached from securities deposited in a bank in France or the United Kingdom which in absence of proofs at the time of their payments have been paid at the interpretation of F.Frs. 5.64 per Bearer Share or F.Frs. 0.282 per Bearer Deposit Certificate can be subject to a later repayment up to 31st December, 1981 on production of the above mentioned documents.

Payments in respect of Coupons and Rearer Deposit Certificates will Payments in respect of Coupons and Board Deposit Certificates will be subject to deduction of United Kingdom Income Tax at the standard rate of 30% unless claims are accompanied by an alliday.

Coupons and Bearer Deposit Certificates should be lodged with:—

S. G. WARBURG & CO. LTD., Coupon Department, St. Albans House. Goldsmith Street, London EC2P 2DL

from whom appropriate claim forms and further information can be Compagnie Financière de Paris et des Pays-Bas

PACIFIC RASIN FUND

la, Soulevard Royal, Luxembou NOTICE TO SHAREHOLDERS USS 95.18 0.74 7.02 (2.94)

Total net assets \_\_\_\_\_\_ 23,179,364.51 190.00

21.52% 3.35% 2Z.95% 1.96% 24.03% 95.180

The information set forth above are historical and are not necessarily indicative of libbure results.

No subscriptions are valid only it made on the basis of the Current Subscriptions are valid only it made on the basis of the Current Prospectus idated May 1979; which will be accompanied by a copy of the latest available annual report and a copy of the latest available semi-annual report. If published after such annual report.

Copies of the prospectus, Annual Report at 31st December, 1979, and Semi-Annual Report at 30th June, 1980 of Pacific Basin Fund can be obtained at the offices of the aconsorial semi-annual report.

Euro-Kuwalti Investment Company KSC, Al-Award Tower, Ahmed Al-Jaber Street, Sharq, Kuwalt.

M & G Group Ltd., Three Quays, Tower Hill, London, E.C.3, U.K.

— Watson & Co., 12 Harrout Road, Gammon House, 1901 Hong Kong.

— Yamaichi Instrantional Europet Ltd., St. Alphago House, 2 Fore Street, London, E.C.2, U.K.

PACIFIC BASIN MANAGEMENT COMPANY SA PACIFIC BASIN MANAGEMENT COMPANY SA Luxembourg, 20th October, 1980.

COMPAGNIE FINANCIÈRE

in France:
Delegation of powers regarding comollance with formalities.
All shareholders, whatever the number
of shares they hold, may take part in this
whething. An attendance allowance of
F.20 will be granted to each shareholder

Financiere de Suez the forms recuired to abtend this Meeting or be represented thereat.

Join owners are required to absolut one of themselves to deal on their behalf with the Company and the berson so appear to the Company and the person so appear to the contract with the restitements of article 163 of the Act of Zddd July 1956 and of Article 163 of the Act of Zddd July 1956 and of Article 163 of the Act of Zddd July 1956 and of Article 163 of the Act of Zddd July 1956 and of Article 163 of the Act of Zddd July 1956 and of Article 163 of the Act of Zddd July 1956 and of Article 163 of the Company of the Latra-ordinary General Meeting.

To have the right to attend or be presented at this Meeting, holders of registered and the Company's registers at least five days before the date of their securities or the Company registers at least five and the Company or with Banque de l'Indochine et de Suez, E2-53 Bishouspate. London, EC2N 4AR also at least five days before the Meeting.

Shareholders unable to attend the Meeting but wishing to be represented thereof the Meeting at least five days before the Meeting are requested to notify the Company's Registered Office as soon as possible, but a least five days before the Meeting are requested to notify the Company's Registered Office as soon as possible, but a least five days before the Meeting.

UNITED DOMINIONS TRUST LIMITED 83% Capital Bonds 1988

5. G. WARBURG & CO. LTD...
announce that the sixth instalment of
Bonds for a nominal value of
U.S.\$1.000,000 have been burchased
for resemption on 1st December, 1980. U.S. 20,500.000 nominal Sonds will remain outstanding after 1st Decemremain outstanding ber, 1980, 30 Gresham Street, London EC2P 2EB,

NATIONAL BANK OF HUNGARY U.S.\$50.000.000 812% BOND\$ 1987 NOTICE IS HEREBY GIVEN that holders of U.S.5240.000 nominal of the Bonds have exertised their right for the redemination of their holdings of such Bonds at par on 3rd November. 1980. Following such redemption to mominal amount of Bonds outstanding will be U.S.55 668.000. Fiscal Agent and Principal Paring Agent MORGAN GRENFELL & CO. LIMITED. 23 Great Winchester Street. London ECZP 2AX.

3rd November. 1980.

3rd November, 1980. EUROPEAN COAL AND STEEL

9'4''', Stertiog/U.S. Dollar Option Bonds dee 1st December 1989 The Commission of the European Communities announces that the annual restainment of Bonds amounties to £650,000,00 nominal value has been purchased for the redemption due on 15 December, 1980. 11th November 1980

TELEFONARTIEBOLAGET L M ERICSSON 94% BONDS 1985 S. G. WARBURG & CO. LTD., amounce that the redemption instalment of U.S.22.250.000 nominal bands, due 1st Docember, 1980, has been met m full by aurelases in the market. U.S.14.700.000 nominal bands will remain outstanding after 1st December. remain 1980.

COMPAGNIE FINANCIÈRE

DE SUEZ.

Società Abonyme resistante in france with a capital of F.942.177.100 controlled for 20 per società Abonyme resistante in france with a capital of F.942.2177.100 controlled for 20 per società finance per società fin TENDERS FOR GREATER LONDON BILLS

CANADIAN PACIFIC LIMITED (Incorporated in Canada)

CANADIAN PACIFIC LIMITED
PERPETUAL 4% CONSOLIDATED
DEBENTURE STOCK
NEW BRUNSWICK RAILWAY
4% DEBENTURE STOCK
CALGARY & EDMONTON RAILWAY
4% DEBENTURE STOCK in preparation for the payment of the hall-yearly interest due January 1. 1981.

In the above Stocks, the transfer books will be closed at 3.30 cm on November 28, 1980 and will be re-repented on January 2, 1981.

W. E. REEVE

November 3. 1980

NOTICE OF RATE OF INTEREST BANGUE EXTEREURE O'ALGERIE USSAO, DOO FLOATING RATE WAS A COMMENT OF THE PROPERTY OF THE PROP

in the second se

Ry Order of the Board. K. W. YOUNG. Company Secretary. HORNE BROTHERS LIMITED

NOTICE IS MEREBY GIVEN that the Transler Books of the Company will be closed from the 16th November to 30th November 1980 both days inclusive for the payment of 8 months interest to 30th November 1980 on the 7% Unsecured Loan Stock 1995; 2000 and the Interior dividend of 2.45% on the 7% Cumulative Preference Saroy, for the finite year to 31st August 1980, the 1897 of the 1897.

# Geoffrey's need to make haste

BY SAMUEL BRITTAN

EXPRESSIONS SUCH as " under review," " being looked at," " may be a case for " come trippingly to the tongue of the British Chancellor, Sir Geoffrey Howe. But even by Sir Geoffrey's standards, the number of topics being examined is large. The following is an incomplete

1-Cash limits have to be announced by November for the Rate Support Grant. It has already been decided that the wage element will provide for "single figure" percentage increases, in line with the 6 to 10 per cent monetary target set out for 1981-2. The exact numbers and details have to be decided. as well as whether to make one announcement covering local authorities, nationalised industries and central government or whether to stagger them in the usual muddled way.

2-A well-publicised review of public spending as a whole for 1981-82 is taking place. Not so well publicised is the object of the so-called cuts of up to £2bn in volume terms. It is simply to prevent public spending for 1981-92 from exceeding the level already announced in the White Paper last March. The total has been swollen by the recession, which has increased nationalised industry deficits and by the need to finance a package of employment aids.

But is not a larger PSBR control. permissible if the recession is worse than the Government expects? The Chancellor now accepts this. The hope, however, is to make the adjustment on the revenue side. Ministers want to avoid increasing taxes despite the revenue shortfall flowing from the recession.

There is a review of the whole system of public expenditure control, so that the totals about which Ministers argue are in a less funny kind of money and bear more relation to the cash actually spent. This is highly desirable, but could not come into effect before the 1981 spending review at the very

4-New monetary targets have normal biannual review. The problem here is how much of the overrun in the period of February to September (estiabove the 7 per cent to 11 per Presidential election providing cent target) should be com- sufficient of a distraction.

DDC I

† Indicates programme

in black and white

12.45 pm News, 1.00 Pebble Mill at One. 1.45 Camberwick Green.

Play School. 4.20 Mighty Mouse.

4.25 Jackanory. 4.40 Jana. 5.00 John Craven's Newsround. 5.05 Blue Peter. 5.35 Adventures of

ACROSS

1 Counterpart to party outfit

5 Discover bulb burning (5, 2)

9 Article to pit against chemical compound (5) 10 Demolished what was

11 Aircraft in stratosphere is

12 Can for instance return

13 Welsh town given tidy head

15 There's no sense in such

extravagant (4-5)

colour a bit (5)

communication (9)

backward and shy (5)

round words on crest (5)

23 A hasty broadcaster might degenerate (3, 2, 4)

25 Extended a great deal of

26 Act like a cut-throat operator

28 Festival Pole found oriental

seminar (5-2)

ability to look ahead (4, 5)

21 Doctor leads island

written under a dictatorship

10 Demolished

(5, -1)

start (5)

(4.5)

9.00 am For Schools, Colleges.

2.01 For Schools, Colleges, 3.15 All Regi Songs of Praise, 3.53 News, 3.55 as follows:

F.T. CROSSWORD PUZZLE No. 4,416

15

23

pensated for in the next period to avoid "base drift." nouncements are expected in the third weck of November.

5-There is also a review of the mechanics of monetary control following the post-corset fiaseo. The Treasury is interested in a more flexible market influenced system for setting MLR, a more effective bank reserve ratio, new debt instruments and methods of selling them. The Treasury's First Lady (Mrs. Thatcher) has put a time limit on the deliberations, but we will be very lucky to get announced results even by the end of November.

6...The Covernment is supposed under the Industry Act to publish a new set of short term economic forecasts which it finds intensely embarrussing.

The great danger is that foreign exchange markets will move too quickly. Any day there could be a rush into sterling which would bring the Governor round to Number 10 with a grave face saying that he could not answer for the consequences of keeping MLR at 16 per cent a moment longer. After all, the market knows that quite large drops interest rates are likely fairly soon. And it is only fortunate hardening of dollar interest rates which has kent the inflow from getting out of

## New strategy

But a drop in MLR before the money supply was seen to be under control would indeed be a blow to the credibility of the whole monetary strategy. The urgent need is to bring forward into the next few days the re statement of monetary targets and to combine it with at least the principles of the new con trol system even if details have to be filled in later.

Indeed the best course would be to take the bull by the horns and put in one document a re statement of the monetary and fiscal strategy, precise public expenditure objectives, and the adjustments to be allowed in the PSBR for recession. Such a document should also contain cash limits and the new economic forecasts. Markets mated by Sir Geoffrey at 8 per move faster than committees cent at an annual rate over and and we cannot rely on the

9.25 Film; " Law of the Land."

11.00 Film SO, with Barry

All Regions as BBC-1 except

8.10 To Serve Them All My Days.

3 Girl upset footballers

at retaliation (3, 3, 3)

ning to compare (5)

cape (5)

order (7)

adjust (9)

moderate (9)

race 18 Found out how strange

22 Saw part of joint (5)

rest (5)

27 Meant negative indeed (7) 23 Outfit one would find stiff

I Meal a prominent feature in The solution to last Saturday's

2 Glucy substance is in mirror with names of winners next

blockhead showed the way

gone astray in resentment (7)

20 Cheque that bounced has

24 Nothing like one's place of

prize puzzle will be published

Saturday.

4 Bird superior to stronghold

5 Find satisfactory new begin-

6 A regular snooker player is

7 Spike gets tired first over

8 Home for women called to

likely to have been ruined

5.55 Nationwide. 6.55 Angels.

Norman.

11.55-12.00 am News.

11.30 The Past at Work.

Musicians remain a symphonic 'lump labour force' THE LIFEBLOOD of the law is clotted with preposterous distinctions, few of which are

legal differences between a

servant" and an "indepen-

dent contractor." The very expressions "servant" and "independent contractor" are more appropriate to the England of the Duchess of Duke Street than to the Great Britain of Sir Harold Wilson and Mrs. Thatcher. Now that those paragons of the age of Pooter, the pantrymaid and the scullerymaid, have gone from upstairs and downstairs to join the aspidistra and the antimacassar in the rubble of history, it is high time that the "servant" and the "indepen-dent contractor" were ear-

These distinctions between a servant " and an " independent contractor" remain important not merely for their basis but, above all, for their consequences.

same limbo.

A "servant" is liable to have his or her tax deducted at source, and, for the purposes of national insurance, is an em-ployed person. An "independent contractor" is wholly responsible for his or her own tax and national insurance. A "servant" cannot be registered or assessed for value

added tax: an "independent contractor" can An employer has duties, not only at common law but under statute, to attend to the safety of a "servant" He or she owes no such duties to any " indepen-

six winners were returned at

an average price of more than

It looks probable that punters

will again not find matters easy.

RACING

BY DOMINIC WIGAN

Maiden Fillies Stake, for it has had to be divided. However,

hardly looks to contain the basis

of a "getting-out" bet for any-

one in trouble. Two more in-

second division, at 4.10

This time there is an addi-

race for the Fleckney

13-1, it proved to be a tricky

afternoon for backers.

injuries, loss and damage due more preposterous and none to the conduct or misconduct of distinguished than the a "servant" during the course of employment. As a general rule, the employer is not legally liable to any third party for the actions of an "independent contractor" even at a time when he or she is employing the 'independent contractor" for

his or her benefit. A "servant" has a prior claim for his or her wages over other ordinary or trade creditors if the company employing him or her is wound up: a company liquidation confers no such advantage, no such priority on an "independent contractor." A 'servant" is entitled to the protection and security of the controversial but salutary legislation concerning redundancy marked for speedy consignment and unfair dismissal: the "inamong the same lumber in the dependent contractor " is not.

> has varied from case to case. Sometimes the extent and degree of control exercised by the employer over the employee has been regarded as the decisive factor. On another occasion, a four-

fold test was suggested:: complex involving (i) control: (ii) ownership of the tools; (iii) chance of profit; (iv) risk of On yet another occasion, Lord

Denning said that the test of "servant" depended on "whether a person is part and parcel of the organisation. In one of his notable judgments, Mr. Justice Cooke, in a case about a part-time market research interviewer, put forward as a general test whether of that distinguished orchestra. the person was carrying on busi-

Velvet Habit for a tricky outing

There are few better-bred

action, this afternoon than the

Seven Barrows chestnut Velvet Habit. I shall be disppointed if

this filly, by Habitat out of that

precocious juvenile Red Velvet, cannot get off the mark in the

Velvet Habit, one of the last Peter Walwyn two-year-olds, to

be ridden by Pat Eddery, stable

jockey, shaped with promise

on her debut and should prove

quick enough to expose the

limitations of the more experi-

Barry Hills, whose near-120-strong South Bank team is

numerically a little superior to

that of Seven Barrows (the only

other stable of comparable size

in Lambourn), will be hoping

that Always Sandicliffe can get

off the mark in the Wysall

This Home Guard filly, for

whom Hills has snapped up

enced Princess Galicia.

of

the

division

ON THE corresponding day a There are few better-bred year ago at Leicester, when the fillies in training, let alone in

Fleckney

Third parties can sue the This test included such Ltd., the Employment Appeal employer for compensation for matters as "whether the man Tribunal decided the status of performing the services pro- four part-time players in that vides his own equipment, orchestra. In its decision on Mr. Winwhether he hires his own

helpers, what degree of finan- field's status, the tribunal took into account the following facts. cial risk he takes, what degree of responsibility for invest-During his period of membership of the orchestra, he paid ment and management he has. national insurance contribuand whether and how far he has tions as a self-employed person; an opportunity of profiting from and was registered as liable to sound management in the peraccount for value added tax on the payments he received for In a case in 1976. Lord his work in the orchestra. Like Justice Megaw invoked the other full-time members of the

assistance of the New Testa- orchestra, he was a member of

formance of his task."

Mengelberg demanded a degree

of subservience from orchestral players which no manufacturer from any truck driver. Nevertheless, the tribunal in us . . like a co-operative of distinguished musicians running

a boss and his musician em-As a result of this decision the tribunal upheld the argument put forward for the orchestral company that Mr. Winfield was "a free-lance musician whose services were hired by the [company] from time to time on a sessional basis" and was not an employee with any right to be unfairly

dismissed. One wonders whether it really makes good sense, good law or good music for the full-time. members of an orchestra which sims and claims to achieve and maintain a "high artistic standard" of "service to the nation" to be declared, described and regarded as freelance musicians hired on a sessional

Neither in its yearbook nor its programmes are all or any members of the orchestra named musicians. Nor would any its performances describe the members of the orchestra taking part in them as each under-taking his or her own business Are orchestral players in all

great exponents of their art as London, one of the world's great Koussevitzky. Toscanini, and centres of music, nothing more -and nothing less—than a symphonic "lump labour force drawn from a pool of indepenof concrete would ever expect dent sub-contractors? Is this the price orchestral musicians

are prepared to pay for the its wisdom decided that the lucrative privilege of the picture as a whole "looks to freedom to play commercial television jingles and other themselves with self and mutual ... As with last year's full-time discipline, and in no sense like member. Mr. Winfield, so with this year's part-time players, Mr. Downs, Mr. Addison, Mr. Rycroft and Miss Williams. The tribunal decided that, when playing for the orchestra. each of them remained essentially a

> or her own profession as an instrumentalist, with an individual reputation and carry. ing on his or her business. The results may be pleasing not only to orchestral manage ments, who remain free from the burden of deducting tax and paying national insurance contributions, but also to the Arts Council and local authorities: responsible for public subsidies, and to commercial firms offering

freelance musician, pursuing his

private sponsorship. But ought not musicians playing regularly in and for an orchestra, whether full-time or, part-time, be given a greater degree of security in this employment and full scope to test the grounds or fairness of their dismissal than the law at present allows them so long as, they come within the legal category of an independent con-

Or do they remain content to play second fiddle not only in the ranks of the orchestra but also in the realm of the law?

## THE WEEK IN THE COURTS BY JUSTINIAN

ment in deciding the legal lia- the Musicians' Union and a The basis of the distinctions bility of a building company to shareholder in the orchestra. a labourer hired to work as a lump labour force." In his judgment he said that "The difficult to decide whether a centurion in St. Matthew's relationship between employer gospel says to the man under and employee is a contract of him Do this, and he doeth it. service. . . The question in The man under him is a serthis case has to be considered vant, not an independent not in the normal industrial or

contractor. second year running, one of finest orchestras composed of London's main orchestras added some of the world's finest

forensic polyphony. Last year, in Winfield v London Philharmonic Orchestra Ltd., the Employment Appeal Tribunal decided the status of a former full-time member, a distinguished principal oboeist.

This year, in Addison v ness on his or her own account. London Philharmonic Orchestra

Willie Carson, showed much

improved form last time out

The patience of her trainer, for

whom she is racing for only the

At Lingfield, Major Swallow

seems likely to go to post at

cramped odds for the Doyen

Novices Chase. He may well

win but reports of sketchy

jumping in his schooling sug-

Herb at Fontwell recently.

fifth time, can be rewarded

In its judgment, the tribunal agreed that "it can be very

commercial context, but in the A fortnight ago, for the context of one of the world's its distinctive timbre to the musicians. Making music is an in the lists of orchestra perforensic polyphony.

And the co-operation sonnel described as freelance art, and the co-operation required for a performance of Berlioz's Requiem is dissimilar concert-goer listening to any of that required between the manufacturer of concrete and

the truck driver who takes the concrete where it is needed." These pronouncements ignore on his or her own account. an incontrovertible fact of the history of conducting - such or any of the great orchestras of

THEATRES

PALLADIUM. D1 437 7373. Tohight
1 730. Tues Thurs 8.0. Wed.
1 730. Tues Thurs 8.0. Wed.
17 8 21 6.10 8 8.45. The Fabulous
LEMA NORNIE with guest stars Ted
Rogers 6 Well Street Crass. Nov.
10 for lour days only VICTOR BORGE
with guest stars GUYS 'n' DOLLS. Nov.
18-19 two days only MISS PRIGGY LEE
Coens Det. 22 for 8 22300. Reduced
price previous Det.
Det. 10 for 8 24300. Reduced
price previous Det.
10 for 10 4745. CLIVE
DUNN. LIONEL BLAIR in DICK
WHITTINGTON. Book now. Box Office
and all agents, Credit cards accepted.

PICCADILLY, 5. 437 A506. CC bockings 379 6565. Mon.-Thura. 8. Frl. & Sat. 6. 20 6.00. 529. From 52.50. ROYAL SAKESPEARS: COMPANY IN WILLY RUSSEII'S NEW COMENT BUT WILLY RUSSEII'S NEW COMENT BUT AT WILLY RUSSEII'S NEW COMENT BUT AT WATCH TO RESC also at Aldwych Warehouse.

PRINCE OF WALES THEATRE, 930 8661.
Credit Card brokings 930 0846. An evaning with TOMMY STEELE and his company. Sees. Mon., Thurs. 8.30. Fri. and Sal. 6.00 and 8.30. Book Now. List Burn weeks. From December 5 Paul Danniels.

RAYMOND REVUEBAR. CC. 01-734 1593 At 7.00. 3.00, 11.00 pm. Open Sura-PAUL RAYMOND presents THE PESTIVAL OF EROTICA. New Jobs. New Gris. New Turkis. 23rd sensational year. Fully air Cond.

ROYAL COURT. S. CC. 730 1745, SUGAR

ROYAL COURT THEATRE UPSTAIRS, 730 2554. Five posts only. MY DINNER WITH ANDRE by Wallace Shawn & Andre Gregory. Directed by Louis Mails. From Tomor 7:30, Wed 7:00. sub Ergs 7:30.

SAYOY THEATRE D1-836 8888. JOHN ALDERTON, PAULINE COLLINS IN Charles Drer's comen's RATHE OF A SIMPLE MAN. EVEN MOS. Thurs & E.D.D. Fri. and S.L. S.45 and S.45. Reduced Group Bookings 838 3082. Credit cary bookings 838 8118.

SHAFTESURY Shaftesbury Ave. WC2.
CC-Tel Boy Circe 01-836 8596. 01-836
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SHAW. 01-388 1394, Evgs. 7.30. THE PRICE by ARTHUR MILLER. Low prices. Easy parking.

ST. GEORGE'S THEATRE. Tufnell Park. N7. 24 Hour Booking 607 1128, Tomor & Wed 7.36 MACRETH. Thurs. Fr! & Sat 7.30 THE WINTERS TALE.

ST. MARTIN'S. CC. 836 1443. Evgs. 8. Matinee Tues. at 2.45. Sal. 5 and 8. Agabha Christie's THE MOUSETRAP. World's longest-ever run. 28th Year. STRAND. 01-636 2680. Evenings 8.00. LONGEST-RUNNING COMEDY IN THE WORLD. NO SEX PLEASE—WE'RE BRITISH. Directed by Allan Davis.

PRINTEDM. Ulrected by Allan Davis.

STRATFORD-UPON-AYON. Royal Shakespears Theatre (0769) 292271. Amex.
Cards. (0769) 292129. Into (0789)
63191. ROYAL SHAKESFEARE COMFARYY in new productions of RICHARD 11
tonight (5.52). Nov 10. 14 (7.36) and
RICHARD 11 Emor (5.30). Nov 17.300.

ROMEO AND JULIET Thora (2.00). Sat
(7.30).

(7.30).

TALK OF THE TOWN. 01-734 5051.

AIR CONDITIONING CREDIT CARDS.

LONDON'S GREATIST NICHT 03.00

From 8 octock. Dinney Denotes 9.30

SUPER REVUE BUBBY and in cabaret 8.11

KAMAHL Dancing until 2m.

THEATRE ROYAL, Drury Lane. 836 8108. S. CC. Den's Guiller. Shells Hancock. SWEENEY TODD. Broadway Musical Winner of 8 Tony Awards. Evs. 7.20. Half-price mallnee Wed, Sal. 2.30. Salts from \$2.50. Grown Sales Box Office 61.379 6067. Mest end Nobember 13.

VAUDEVILLE, CC. 01-836 9988. Mon. M Fri. 7.45. Wed mat 2.45. Sat 5 & 8.15. JDAN PLGWRIGHT, COLIN BLAKEY ENJOY. A new play by ALAN BENNETT Directed by Ronald Evre.

WAREHOUSE, Donmar Theatre, Eartham Street, Covent Garden, Box Ovice 3:6 6508. ROYAL SHAKESPEARE COMPANY, FINAL PERFS Ton't Tomor. Wed 7:30 NO LIMITS TO LOVE DOWN METERS AND METERS AND STUDENT STATES STATES

WESTMINSTER. S. CC. 01-834 D. Fourth London Season Nov. 18-Jan. THE GINGEREREAD MAN.

WHITEHALL THEATRE. 01-930 7755. CC.
Paul Raymond presents FIDNA RICHMOND and a Bedful of Beauties in WOT!
NO PYJAMAS. Evps. 3.30. Fri.. Sat.
6.15 and 8.30. Over 200 perts.

## OPERA & BALLET

COLISEUM, S. 836 3161. CC 240 5258. ENGLISH NATIONAL OPERA Tombr & Sat 7.00: Arabella. Wed & Fri 7.30: La Belle Hielena. Thurs 7.30: La Boheme. 104 balcony seats avail from 10 am on day of perf. PALACE. S. CC. 01-437 6834. RODGERS & HAMMERSTEIN'S OKYAHOMA! Evgs. 7.30. Mais. Wed. and Sal. 3.0. Group Sales Box Offic 01-379 6061.

COVENT GARDEN, 240 1066.5. (Garden-charge CC 836 5803: 65 Amphi seats avail for all perfs from 10 am on day of perf. THE ROYAL OPERA Ten's 6 Fri 7.00 Otalio. Tomor 6 Sat 7.00 Le source di Figure. THE ROYAL BALLET Wed 7.30 Gisella. Thur 7.30 Swan Lake. ADLER'S WELLS THEATRE, ECI. HANDEL OFERA. Uncil Nov. 15. 25th Antiversary. Weg & Sat 7.30 Esther. Fri 7.30 Esto. Titts, £1-£7. 8kg Office 837 1672-3956-7505.

YCH, S. 836 6404. CC 379 5233 i, Sats 10-4). Info 836 5332. AL SHAKESPEAR COMPANY available Ton't 7.30 Then eves 7.30. Sat mate 2.00 FINAL PERFS JUNO THE PAYCOCK by Sean O'Claser, o Sales Box Ofice 379 6061. For RSC el booking key 22023. Booking how for special return \$28300 of

AMBASSADORS, S. CC. 835 1171.
Evgs. at 8.00. Mats. Sats. at 4.00.
DONALD SWANN & FRANK TOPPING
IN SWANN WITH TOPPING. Seats £2.50.
£3.50. £4.50. £5.50.

APOLLO 5. CC. 31-437 2663. Grp. sales 379 6061; Eves. 8.00. Wed. 3.00. Sal. 5.00, 8.00 (Wed. mat 5.00 from Nov. 12). ROONEY BEWES, FRANCIS MATTHEWS In MIDDLE AGE SPREAD. Comedy of the Year West End Theatre Awards.

Mon.-Thur. Evgs. 8.00. Fri. & Sat. 6.30 & 9.00. JOE ORTON'S LOOT. Directed by KENNETH WILLIAMS.

Directed by KENNETH WILLIAMS.

CAMBRIDGE THEATRE, S. 01-236 6056.
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COMEDY THEATRE, S. CC. 01-930 2578.
Gro. sales Box Office 378 5061 Evet.
8.00. Mat. Sat. at 5.00 CLED Lahie
as COLETTE with Kenneth Nelson and
John Mofat. A stary with music by
John Dankworth. Last Week. Season ends
Saturday.

CRITERION. 930 3216. CC. 379 6555. Group Bées. 836 3662 or 379 6061. Estre. 8.00. Fr). and 5at. 6.00. 8.45. Robin Ray. Jonathan Adams. Martin Connor. Tricla George in TOMPOGLERY the words and music and lyrics of TOM LEMRER.

DUCHESS TH. CC. 01-836 8243. Group selec 379 5081. Eves 8.00. Sats. S.30 & 8.30. Thurs. Mat. 3.00 (Thurs. Mat. 3.0 Februs 307.) MARIA AITKE BYCKATE LIVES.

DUKE OF YORK'S, S. CC. 836 5122 Mon-Thur 8.0. Fri 8.30. Sat. 5.30 & 8.30. Matinez Wednesday at 3.0. FRANCES de la TOUR. DAVID de KEYSER In DUKT FOR ONE by Tom KEMPHYSKI.

FORTUNE. 01-836 2238. Evening: 8.00. Sat. 5.0 & 8.0. EDWARD DUKE IN JEEVES TAKES CHARGE by P. G. WODEHOUSE.

GARRICK. CC. S. 836 4601. Evgs. 8.00 (ahara). Fr. and Sat. 5.30 and 8.30. WILLIAM FRANKLYN DEATHTRAP. Group Bookings 01-379 6061.

GLOBE. S. CC 01-437 1592, 01-439 5770 Evgs. 8.0. Sat. 6.0 & 8.45. Grown Sales Box Ottic 91-378 5051. HINGE & BRACKSTT AT THE GLOBE. FOR A LIMITED SEASON ONLY.

CREENWICH THEATRE, S. CC. 858 7755.
Proview Wed 8.0. Opens Thur 7.0. Subevgs 8.0. Mat Sais 2.30. ALL TOGETHER
NOW. A new play by PETER BUCKMAN

HAYMARKET, Theatre Royal 01-930 9832 Even 7.45 Wed. 2.30, Sal. 4.30 and 8.00. EWed. 2.30, Sal. 4.30 PRIVATE SCALES IN MICHAEL PRAYN'S MAKES AND BERGAK Directed by MICHAEL BLAKEMORE.

HER MAJESTY'S. 930 5605. S. CC. Evgs. 8. Sal. 5 & 515. Wed. Mots. 3. Group sales 07-379 5067. 7HE STREETS OF LONDON by Dion Bouctault.

KINGS HEAD, 2.6 1916. Dnr 7 Show 8.
GOOD FUN BY VICtoria Wood.
LYRIC 5. CC 01-437 3688. Evenings
8.00. Wed. 3.00. Sats. 5.30. and 8.30.
DINSDALE LANDEN, NICOLA PAGETT
In ALAN AYCKBOURN'S TAKING
STEPS.

From Wed., Eves. 7,30. ILLUMINATIONS
by Peter Jenkins. Cast Includes Paul
Eddington. Bith Mistry, Migel Stock, Judy
Loc. Book Now! LYRIC STUDIO: Ends
Sat : Eves 8.0. TNE FOTSDAM
QUARTET, David Pinner's rew comedy,
director David Giles. Today 1.15. A
GALWAY GIRL.

MAYFAIR. 01-819 3037. Dec. 22-Jan 10.
Daily 10.30 2.00 & 4.00 pm. 500TY'S
XMAS SHOW with MATTHEW CORBETT.

gest that Cargolux may be better bet. Cargolux did well to finish second behind The THEATRES ADELPHI. CC. 01-836 7611. Evs. at 7.30 Sai. 4.00. 7.45. Mats. Thurs. at 3.00. TONY BRITTON, CAROLINE VILLERS. PITER BAYLISS and ANNA NEAGLE IN MY FAIR LADY. Grupp bookings ring 01-836 7358 or 01-379 5061. ALBERY, 836 3878. CC bkgs. 379 6565. Ge. bkgs. 379 6061 or 836 3962. Eves. 8.00. Thors. mai 4.30. Sat. 5.00 6 8.15. Sian Philips. Denis Lawson, Half Moon Production Rodgers & Hart's PAL JOET.

3.15—Always Sandicliffe\*\*

1.30—Brown Jock 2.00-Ro's Owen 3.30-Rockbarton

LEICESTER 1.15-Velvet Habit\*\*\* 1.45—The Mariestan 2.15-Saulingdale

LINGFIELD 1.00-Cargolux\*

sisting betting mediums appear to be the opening division of that event, and the Wysali Stakes. Scotland - 11.00-11.20 am For

Schools. 12.40-12.45 pm News. 5.55-6.20 Reporting Scotland. 11.30 Cearcall. 12.00 News. Northern Ireland - 3.53-3.55 Around Six. 6.20-6.55 Land 'n' Larder. 11.59-12.20 am Festival

Notebook. 12.20 News. England - 5.55-6.20 Look East (Norwich); Look North (Leeds, Newcastle); Look North West (Manchester); Midlands Today (Birmingham); Nationwide BBC Cymru/Wales — 1,45-2.01 pm Pila Pala. 5.55-6.20 Wales Today. 6.55-7.15 Heddiw. 7.15-Nationwide (London and South-East); Points

West (Bristol): South Today (Southampton); Spotlight South-West (Plymouth).

BBC 2

10.00 am Good for Business. 12.25 Role of the Nurse. 11.00 Play School

2.15 pm Let's Go. 3.00 Make Your Own Furniture.

3.30 Time Out of Mind. 4.15 Is There Life After School? 5.40 Harold Lloyd film, 6.05 All Creatures Great and

6.55 Making a Bob or Two.

7.35 News. 7.45 Wainwrights' Law. 8.10 Des O'Connor. 9.00 BBC North Korean Cinema Season: Not The

Nine O'Clock News. 9.25 Horizon: Smoking. 10.15 Premiere IV. 10.50 Newsnight,

11.35 Heute Direkt. LONDON

9.30 am Schools programmes, 12.00 pm We'll Tell You a Story, 12.10 Rainbow. 12.30 Village Action. 1.00 News, 1.20 Thames News, 1.30 Farmhouse Kitchen. 2.00 The Riordans, 2,30 Film; The Million Pound Note." Kidnapped. 4.45 Clapperboard, 5.15 White Light 5.45 News. 6.00 Thames News. association with bundle (5)

1053kHz/286m 1089kHz/275m

693kHz/433m

Radio Wavelengths

3 1215kHz/247m

4 200kHz/1500m

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7.00 Give Us a Clue. 7.30 Coronation Street. 8.00 In Loving Memory. 8.30 World In Action.

9.00 Film: fighter." 10.00 News. 10.30 Film continued. 11.15 New Avengers. 12.15 am Sit Up and Listen

with Edward Heath. All IBA Regions as London except at the following times:

ANGLIA

1.20 pm Anglia News. 1.30 About Britain. 2.00 Farmhouse Kitchen. 12.30 Film "My Cousin Rachel." 5.15 University Challenge. 6.00 About Anglia. 6.30 Survival. 11.15 Teletext Grand Prix. 12.15 Barney Miller. 12.45 The Other Day.

ATV
1.20 pm ATV News. 1.30 About
Britain. 2.00 Farmhouse Kitchen. 2.30
Film: "The Men from Colorado." 5.00
Vegas. 10.30 Left, Right and Contre.
11.10 ATV News. 11.15 Danger UXB.
12.15 am Something Different.

BORDER 1.20 pm Border News. 2.30 Film: "Doctor in Love." 5.15 Gembit. 6.00 Looksround Monday. 6.15 Look Who's Telking. 6.46 Brein of the Border. 11.15 Kaz. 12.16 am Border News.

CHANNEL CHANNEL

1.20 pm Chennel News. 1.30 About
Britain. 2.00 Farmhouse Kitchen. 2.30
Film: "Anastasia." 5.15 University
Challenge. 6.00 Chennel News. 6.10
Then Came Bronson. 7.00 Give Us A
Clue. 10.28 Channel News. 10.34 Film
continues. 11.15 Crasherams. 11.45
George Hamilton IV. 12.10 am Commanterres at Pravisions Meterologiques.

GRAMPIAN
1.20 pm North News. 1.30 About
Britain. 2.00 Farmhouse Kitchen. 2.30
Film: "Holiday Camp." 5.15 Gambit.
8.00 North Tonight. 6.35 Out Of Town.
11.15 The Palace Presents. Variety:
12.10 am Reflections. 12.15 North
Headlines.

GRANADA 1.20 pm Granda Réports. 1.30 About Britain. 2.00 Farmhouse Kitchen, 2.30 Film: "The Amorous Prawn." 5.15 Airght Now! 6.00 Granda Reports. 11.15 Superstar Profile. 11.45 Survival.

BBC Radio London 1458kHz, 208m & 94.9vhf

Capital Rádio: 1548kHz, 194m & 95.8vhf

1151kHz, 261m & 97.3vht

HTV
1.20 pm HTV News. 1.30 About Sittain. 2.00 Farmhouse Kitchen. 2.30 Film: "New You See It New You Don't." 5.15 Gambit. 6.00 Report Wast. 10.28 HTV News, 11.15 Inter-

HTV Cymnu/Wales—As HTV West except: 10.05-10.20 am About Wales. 10.40-11.00 German Programme. 11.05-11.20 Am Gymnu. 12.00-12.10 pm Flalemélam. 4.45-5.15 Sér. 6.00-6.25 Y Dydd. 6.25-7.00 Report Wales. 8.30-am V-14ushnes. 9.00 Yr Wythnos.

SCOTTISH 1.30 pm About Britain. 2.00 Ferm-house Kitchen. 2.30 Film: "Stolen House." 5.15 Testime Tales. 5.20 Crossroads. 6.00 Scotland Today. 6.40 Crime Desk. 9.00 Vegas. 10.30 About Gaelic. 11.00 Three's Company. 11.30 Our Little Town. 12.00 Barney Miller. 12.30 am Late Call.

SOUTHERN 1.20 pm Southern News, 1.30 About Britain, 2.00 Houseparty, 2.25 Emily, Emily, 3.45 Farmhouse Kitchen, 5.15 Different Strokes, 6.00 Day by Day, 9.00 Vegas, 10.35 Afloat, 11.05 WKRr in Cladinatti, 11.30 Pro-Celebrity Snooker, 12.15 am Godsell.

TYNE TEES 1.20 pm North-East News, Look-around, 1.30 About Britain, 2.00 Farm Around J. J. About Stiain. 2.00 Falmin fouss Kitchen. 2.30 Film: "The October Man." 5.15 Black Seauty. 6.00 North-East News. 5.02 Double Top. 6.30 Northern Life. 9.00 Veges. 10.32 Northern Report. 11.00 Ksz. 12.01 sen Do It Like.

ULSTER 1.20 pm Lunchtime. 1.30 Fermhouse Kitchen, 2.30 Film: "The Card." 4.13 Ulater News, 5.15 Gembit. 5.00 Good Evening Ulster, 9.00 Peris, 10.30 By This I Live, 11.00 Benson. 12.01 am

WESTWARD

1.20 pm Westward News. 1.30 About Brusin. 2.00 Fermhouse Kitchen. 2.30 Film: "Anestasie." 4.12 Gus Honsybun's Birthdeys. 5.15 University Challenge. 6.00 Westward Diary. 11.15 Crasherama. 11.45 George Hamilton IV. 12.10 am Feith for Life. 12.15 West Country Weather, shipping Torboast.

TORKSHIRE

1.20 pm Calendar News 1.30 About
Britain. 2.00 Farmhouse Kitchen. 12.30
Film: "Bechelor Knight." 5.15 Gembit.
6.00 Calendar. 5.30 Mind Your
Language. 11.15 They Ai. Play Ragtime.

5.00 am As Radio 2. 6.30 Rugh Hour 9.15 Entertainment in Town, 10.02 Robbis Vincent Telephone Programme, 1.03 pm London Live. 3.15 Sweb Shop, 4.30 News. 5.35 Music on the Move, 7.03 Black Londoners. 8.00 Question

London Broadcasting 6.00 am AM—Bob Holness and Dauglas Comeron. 10.00 Janny Lacey. 12.00, 2.00, 4.00. 6.00 LBC Reports. 8.00 After Eight Special—Carol Allen. 9.00 Nightline. 12.00 LBC Reports. 1.00 am Night Extra 3.30 LBC Cinema. 4.00 After Eight Sunday. 5.00 Morning Music.

Capital Radio
200 am Duncen Johnson's Night
Fight (5). 6.00 Milke Smith's Bresklast Show (5). 9.00 Michael Aspel
(S). 12.00 Grahem Dane (5). 3.00 pm
Roger Scott (8). 7.00 London Tenight
with Bryan Wolfa (5). 9.00 Alan Freemen (5). 1.00 Tony Myatt's Late Show
(S). 2.00 am Duncan Johnson's Night
Filight (5).

THEATRES

WYNDHAM'S S. 01-836 3028. CC tks. 379 6565. M.-Fri. B. SR. 8 and 240. Dario Fo's larce Accidental Death OF AN ANARCHIST. CLD VIC. 928 7616, CC 261 1821. S.
Eygs 7.30 mats, Wed 8 Sst 2.00
Until Sat. Leicester Haymarket Theatre
Co with Margaretta Scott, Richard
Easton, Polly Adams & Joyca Grain
In the oneinal 4-Act version of THE
IMPORTANCE OF ESING EARNEST.
Tood now bkg 15 Dec to 17 Jan. YOUNG VIC. 928 6363. Eres 7.30 perfsi: Ton't. Sheketpeare's ROME(. 1811ET. Tomor. Wed. Thur. LEAR. Set. Kafka's THE TRIAL From 11 | Michael Hastings' GLOO 100.

CINEMAS

ABC 1 & 2. SHAFTESBURY AVE. 836; 836; Sep. perfs. ALL SEATS EXBLE: 1: AFOCALYPSE NOW (X) 70 mm Wa. & Sent: 1.30. 4.40. 7.55. 2: THE ELEPRANT MAN (AA). WK. & Sun: 1.30. 4.45. 8.00.

CLASSIC ENTERTAINMENT Teledate 01-200 0200 CLASSIC 1, 2. 3. Haymarket (Procedit) Circus Tube), 01-839 1527. 1: Walt Disney's SNOW WHITE & THE SEVEN DWARFS (U. Props. 12.20 (no.: SUR.I. 2.40, 5.15. 7.55. 2: BREAKER MORANT (A). Progs. 1.10 inot Son. 1.300, 5.35, 8.10. 2: LAST 3 DAYS! THE BIG RED ONE IAA in Dolby Stered. Progs. 1.05 inot Son.). 3.30, 5.55. 8.20.

1: DRESSED to KILL ON, Progs. 1.20, 3.30, 5.40, 8.00. 2: Dudley Moore WHOLLY MOSES (AA., 3.30, 5.50, 8.10, 3: LAST 3 DAYS! THE BIG BRAWL (AA). Pros. 1,25, 3.30, 5.35. 8.40. 4: LAST 3 DAYS! THE HUNTER (AA). Progs. 1.20. 3.30, 5.40, 8.00. 5: AIRPLANEI (A). Progs. 1.00. 2.00, 5.00, 7.00. 9.00. CLASSIC, Leicester Square. 01-830 6915. CRUISING (X). 1.45 (not Sun.) 5.20 8.55. EVICTORS (X). 3.30, 7.05. CURZON, Curzon Street. W1. 499 3737. Bertrant's Tavenier's UNE SEMAINE DE VACANCES IAA. (English sub-tiles. Progs. 2.00 (not Sun.), 4.05. 6.20. 8 40.

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Alive, 7.31 Mike Read, 10.02 John
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ing Concert (S). 9.00 Nows. 9.05
This Weak's Composer: G. P. Telemann
(S). 9.45 Cello Sonates (S). 11.10
Birmingham Symphony Orchestra concert (S). 1.00 pm News. 1.05 8BC
Lunchtima Concert (S). 2.05 Matinas
Musicale concert (S). 3.05 Anthony
Milnar (S). 3.30 New Records (S).
4,55 News. 5.00 Mainly for Pleasura
(S). 7.00 Strauss (S). 7.30 English
Chamber Orchestra concert (S). 8,10 Chamber Orchestra concert (S). 8.10
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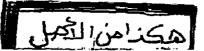
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EUROPE'S BUSINESS NEWSPAPER

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Elizabet



## THE ARTS

## The Other Place

## Hansel and Gretel

by B. A. YOUNG

familiar tale is even more were on a football train. Gretel brutal than that of the Grimm sucks up to the Witch and is Brothers, but in the Grimm Brothers' own manner; that is the microwave oven meant for to say, the most appalling Hansel. cruelities are presented for amusement. I don't think Mr. heart an elegant lady who wears Rudkin hopes for the amuse the traditional black kit because ment of children, however, like they are the fashion, but at the Grimms; his play is pep-other times can appear as pered with four lettered words homely Granny Daw (with an and examples of bad behaviour. appropriate beak elongating her This is unexpected from the nose) or even as Lady Daw, author of Ashes, that agonising taking tea on the lawn or avidly

we know it. Hansel and Gretel (Allan Hendriks and Janine Duvitski) have been half-purposely lost in the forest by their indifferent parents, and the Witch catches them by using drugged sweets as bait. Hansel is popped into a cage to be fattened up for the table: Gretel. her ankles chained together. is offspring; yet when they are employed as a domestic. They home again, he takes an act throughout like the nastiest appalled look as they settle children. When the Sandman (Edwin Richfield) releases and exclaims: "Who are these Hansel, he goes on a mindless people in my house?"

David Rudkin's version of the orgy of destruction as if he treated as a daughter until she gets a chance to push her into

Brenda Bruce's Witch is at efforts to have a family. I'd addressing the local school about the Lady Daw Crusade. When she is killed, her proheart wasn't in it. That would account for the many bad jokes.

The story is told roughly addressing the local school about the Lady Daw Crusade. When she is killed, her property passes to the childrens' stepmother (Barbara Kingham) The story is told roughly as who is also the Witch's gruesome daughter, Olive).

Children, in fiction at any

rate, always resent their step-mothers, and children who have met witches won't be slow in connecting the two.

The father (Hugh Ross) is

berian style, with infectious

Miss Esengery found new

remarkable little duologue for

this must sound, it consists of

nymph for her green glass

sals. The piece is ingeniously

cal as quirky. It sent Miss

register, which contains some

## Wigmore Hall

## Adrienne Csengery

by DAVID MURRAY

This Hungarian soprano has These the singer took up and een much admired at Glynde- brandished in full-blooded Berbeen much admired at Glyndebourne for her Susanna and Zerlina; her fascinating recital relish. on Friday revealed other aspects of her talent. Of these, the least by far is her command of English. It is much more foreign one, "Overheard on a Salt-than she realises, or she would marsh." Unpromising though An exhibition that not have chosen to fill the first half of her programme with Haydn's dozen English canzona goblin's groaning pleas to a ettas. She delivered them with beads, and her gurgling refuan individual sort of elegance, unexpected rhetorical effects and a tendency to float sharp, devised, not at all hit-or-miss and its effect is as much musibut the exotic accents of her Csengery plummetting and soaring between Alberich-depths and her silvery upper words were a hefty distraction. Safely back in Hungarian. Miss Csengery addressed herself to the voice-and-plano version of Bartok's Village Songs in a hauntingly beautiful notes. No variety of exuberant tones— doubt that seems an odd way liquid, rancous, darkly earthy. She brought the cycle to vivid folk-rustic life, with temperate to put it: but the whole Csengery voice turns out to harbour odder riches than support from Walter Moore, her could have been guessed at cool polished accompanist. His Glyndebourne (and sheer Hayda had been far more power at points the Wigmore idiomatically committed, and Hall barely contained it). I he sounded happier again with fancy that we shall hear very Hayda had been far more idiomatically committed, and he sounded happier again with fancy that we shall hear very the mechanical skirlings of interesting things from this Stravinsky's Pribaouthi songs. singer.

## Elizabeth Hall

## The Child from the Sea

Conducted by Steuart Bed- as a whole is of an artifice ford for the first of their four intended to obscure, as if provisits to the Elizabeth Hall this fundity would be naturally read eason on Friday evening the London a recent piece by been provided with grateful Stephen Oliver. The Child from musical images the shortcomings Northern Sinfonia brought to the Sea for treble solo, chorus and orchestra was commissioned as part of the celebrations for gramme note for the work was brief to the point of obscurity; Oliver's warning that the work is not to be and orchestra lacked the local control of the chorus warning that the work is not to be and orchestra lacked the local control of the Oliver's warning that the work is not to be taken as an allegory out as a treatment of "the doubts and dangers that attend any great undertaking " did not

The text is the composer's own. It relates a strange little tale of a king and a child who appears from the sea to take the king away from his people —a flimsy narrative that would require the most imaginative and careful treatment to give it convincing flesh. Oliver allots in less sympathetic surroundchild. The feeling of the work

into anything which cannot be

immediately understood. of the text would not seem so intrusive. But the Northern Sinfonia chorus could barely something positive out of Oliver's gestures. The music is by turns faceless and suggestive of a tired, middle-aged brand of English music; the treble solos predictably recall Britten, though the soloist (on this occasion the very secure Mark Cresswell) is not given much encouragement.

the bulk of the story to the ings and forced to be self-chorus, leaving the treble solo sufficient The Child from the to the vague utterances of the Sea does not begin to convince. Sea does not begin to convince.

ANDREW CLEMENTS



## Architecture

## From brief to building

by COLIN AMERY

It is often a puzzle for the This quality shows in the de- Another controversial build-layman to discover exactly how sign for the new Post Office ing by this firm is the residen-buildings end up looking the Headquarters on the sensitive tial range at Keble College buildings end up looking the way they do. The Heinz Gallery Architects is a kind of shop Of course, the actual buildings are the best and often the worst advertisements for the architect but it is fascinating to attempt voices again for Jozsef Bakky's to understand the creative pro-remarkable little duologue for cess that produces one building

> An exhibition that has just opened at the Heinz Gallery on the work of Ahrends Burton and Koralek certainly lays the creative process on the line. Peter Ahrends, Richard Burton and Paul Koralek studied architecture together from 1951 to 1956; they formed a practice in 1961 and this show is a record of 20 years work.

Fine drawings and beautiful models show a number of buildings and projects and in almost every case early sketches and illustrations of the "briefing process" indicate the early gropings towards the final form. The presentation of the exhibition is seducitive and one quality tion is seductive and one quality is evident throughout—there is a recognition that architecture is an art, however simple and functional the brief.

tial range at Keble College St. Martin's-le-Grand site north of St. Paul's Cathedral. Osten-Oxford. A long snake of rooms of the Royal Institute of British sibly just another office build. that ends up in a coil that curls ing it is streets ahead of the in on itself-it is a brave chalwindow where architects can average City block. A filigree lenge to Butterfield's Fair Isle show their wares to the public screen of tubular aluminium patterned brickwork. Yellow gives depth to the walls which brick blank walls are presented follow an elegant curve and to the world while inside the frame the Cathedral beautifully. college all is raked glazing and Sadly this design is now not startling reflections. Like Wil-Sadiy this design is now not going to be built, the Post Office has opted for "economy" and liam Butterfield's achievement at Keble there is nothing comwill no doubt produce a building monplace about this bold buildof no real distinction. ing; it hits hard and strong. The building that gave birth A house in the heart of the old city of Jerusalem is another to this practice was the Library at Trinity College Dublin. A striking example of this firm's dramatic rendering of the late design integrity. It grows out style of Le Corbusier it has its of the old walls with tremen-enemies as well as its admirers. dous distinction and is con-It has a ruthless rhetoric which vincingly at home in a sensative extends as far as the concrete furniture—looked at nearly 20 historic area. This building represents all that the firm of years after it was designed, is ABK stands for; care for detail,

> austere aesthetic. Go to the Heinz Gallery to see how good architects work, it is technic at Portsmouth are vindications of a design approach that is a disect a very distinguished exhibition. Their clients range from librarians to John Lewis and they have all been well served. The Heinz Gallery is at 21 Portman Square, London W1. (Mon.-Fri. 11.00-5.00, Sat. 10.00-

human scale, response to a sensitive site, and a rather

## New Theatre. Oxford

# The Rake's Progress

it a period piece? The firm has grown more rational since

those heady days and their

latest library buildings for Red-car, Maidenhead, and the Poly-

response to brief, site and materials. All three libraries

seem to me to have a ciarity

both practical and beautiful.

by DAVID MURRAY

Company has inherited, or at Shadow, it was a strong, saturauthority was compounded by least borrowed, its parent company's staging of Stravinsky's opera, and presented it in Oxford last week. Pleasant to discover that David Hockney's brilliant cross-hatched sets travel so well (with John Cox's production reproduced for this tour by Julian Hope); a little disappointing to find a good young cast having such difficulty with projecting Auden's text in his home territory. In fact the slightly cavernous New Theatre had many unfilled seats, which cannot have helped even the cannot have helped; even the excellent Bournemouth Sinfonietta in the pit sounded as if at a great distance.

scarcely distinguish save in 121 and Television Times by which charts the uneven prorecitative, proved most Peter Prince, which opens on gress of a group of TV profeseffectively at home in extremis. December 9 (performances from sionals working on a major
though over-Shadowed by his December 3). drama series. This is Peter
diabolical partner — John The Irish Play, a political Prince's first play for the RSC.
Pringle, making his British comedy set in an Irish club in It is also director Stephen
operatic debut with éclat. If this the Midlands, stars John Frears' first RSC production.

The Glyndebourne Touring wasn't an especially subtle Nick Trulove, but a want of paternal tone and alert attack, brimming playing Old Gobbo. Stephen with dramatic confidence. A comparable grasp of the text of the score, sound in detail and would have improved Helen properly weighty for the Walker's Anne Trulove, blackest moments, was almost

detailed. vocal line, and invaluable brio. John Roger Bryson sounded well as Auctioneer

pleasantly sung but under- too suave for the circumstances -a little more strident energy For Mary King's sprightly might have brought the per-Baba the Turk, nothing but formance to life sconer. The praise: vigorous comedy on the eventual resuscitation was due right side of circus clowning, not least to a visitor from the decent accuracy with her taxing original Glyndebourne cast. Fryatt's

## Two RSC plays at Warehouse

After the interval the The RSC is to stage two new Cowley. Jim Fitzgerald and audience warmed to the auction plays at The Warehouse: The P. G. Stevens. It is directed by scene, and thereafter the singers Irish Play by Ron Hutchinson. Barry Kyle and designed by took heart. Peter Jeffes' frail which opens on November 18 Bob Crowley.
Rake, whose words I could (performances from November Television Times is a comedy scarcely distinguish save in 12) and Television Times by which charts the uneven pro-

Barlow's sympathetic exposition

BY TREVOR BAILEY

## Cottesloe

# The Crucible by B. A. YOUNG

I have not been so profoundly craft, and Mary recants, noved for a long time as I was The play is taut and exciting the third act of this tremen-from the start, where we first moved for a long time as I was in the third act of this tremendous play, certainly the best Arthur Miller wrote, possibly the best American play of this century. Miller winds up the tension with remarkable skill in the court hearing to which John Proctor has come to clear his wife of the accusation of witchcraft. First there is Proctor's difficult decision, whether to confess to adultery with Abigail Williams, chief of young girls who are marking down all the women in Salem as witches. If he confesses, there is a chance that Abigail will be recognised as a liar. He does confess, in his wife's

servant Mary Warren, who has been with the band but has left them. She tells the judge the accusations were all lies; but as she does so, the girls turn on

learn of the children's "sport," dancing naked in the woods with a Barbadian slave woman, Then attention is focused more nearly on one couple, the decent Proctors, who become involved when Abigail tries to involve Proctor's wife out of jealousy. Bill Bryden's production makes the most of the succes-

sion of climaxes that follow one another with increasing force. The excellent company did not seem as good as it was last night until the first act was nearly over; I was thrown by the assorted accents, none of them from Massachusetts, until the presence; but the court needs magic of the words held me tompletely. The childish guilt he realises all the shame it must completely. The childish guilt he realises all the shame it must completely. The childish guilt he realises all the shame it must be realised and the realises all the shame it must be realised and the realis she does so, the girls turn on her and pretend that she is threatening them with witch-

little-girl innocence and experienced wickedness.

Mark McManus is first-class as Proctor, at first the wholly upright man, prepared to dely even the Deputy Governor (a marvellous performance by Tony Haygarth, his authority tinged every now and then with a hint of sympathy) in the pursuit of justice for his wife and the other accused women, victims of the children's game that they can't back out of.

Dinah Stabb plays his wife, the archetype of the wrongly marked witch, faithful to her husband even after his confes-sion of adultery and his false confession of dealing with the devil, which he withdraws when he realises all the shame it must and her friends smoulders up as the rival clergy, J. G. Devlin into genuine wickedness until in as the litigious old Corey, and the court scene they are others. The admirable set in veritable demous in their clever plain board, instantly and

## Festival d'Automne, Paris

## The Oresteia

by MICHAEL COVENEY

The centre-piece of this year's theatre programme at the Paris Festival is undoubtedly Peter Stein's production of the Aeschylus trilogy, visiting from the Schaubühne Ufer in West Berlin. There are more performances this week in the Maison de la Culture in the grim concrete suburb of Bobigny before the show returns to Berlin. On Saturday, the trilogy was given complete, starting at 2 pm and finishing at 11.30 pm. The plays themselves are very short. Peter Stein's production of them is very long. But

absolutely riveting.

The pervasive slow-motion atmosphere in a specially contrived large black box arena the stalls have been removed with telling use made of long diagonal entrances and stunning half light is instantly recognisable to those familiar with the work of Robert Wilson. Apart from that, the performance is vocally choreographed in a style that has no fears of the demands of Greek tragedy. In the second play, The Choephori, Electra's mourning call is spread through a female chorus that slithers slowly on to the stage beating their breasts, rending their clothes and railing against the sky. The ululation builds to a tremendous climax before Electra and pummel Agamemnon's huge black tomb with their fists. The choral speeches themselves are a marvellous mixture of conversational inflection, solo

comment and coporate incantation. The same is true of the old male chorus line in the Agamemnon. Here we have a bunch of village elders in battered nats, leaning incredu-lously on their sticks while the tragedy unfolds at a higher level in the House of Atreus. Every now and again they break away into a conspiratorial huddle. Mr. Stein solves brilliantly the problem of how to make the Chorus at once observant and participatory. When Agamemnon returns from Troy, they lay out a railway line along the same diagonal used by Orestes and, on a flying contraption, Athene in The Eumenides. They greet him with an ominous, close-harmony chant. Perhaps they were expecting Attila the Hum.

Strict technical control also characterises the solo expres-sions of grief and foreboding. Cassandra (Elke Petri) produces an astounding ululatory yelp while still under white captive wraps. As the Chorus shake from being an unmitigated dis-their collective head at the aster he has been encouraged prophecies, she breaks into a to go on seeking financial help."

culminating in a quiet accept- The transformation ance of defeat as she crosses the Furies-who resemble, just as fatal threshold. On hearing the Priestess at Apollo's shrine Agamemnon's death cry, two of says they do (in the Penguin dismay.

gedies is graphically done by the emergence from the house, at the end of both Agamemnon and The Choepheri, of a chaotic platform. First, Clytemnestra platform. First, Clytemnestra
stands astride her husband and
his lover. Second. Orestes,
brandishing an olive branch and a sword, displays his mother and her lover (Aegisthus). On both occasions blood drips to the floor like rain from a gutter.

liant Edith Clever, as Clytemnestra is astonishing. Framed in the palace doorway, her presence is beautifully engineered in the overall architectural scheme. When Agamempon eventually goes inside, she breaks momentarily free to has added his own grim com-thank Zeus in a crouched posi-ment. But he has scuppered the tion. In the second play, she pragmatic optimism of the text. shuffles on, weak with weariness. Everything in her voice and gesture, both slinky and this year in London we saw doomed, tells you that years John Barton's Euripidean epic. have passed and the house stinks with sadness. One forlorn Aeschylus Agamemnon and the attendant half-hides in the Euripides Orestes (which covers doorway when a disguised the same territory as The Orestes announces that Orestes Coephori) were part of a is dead. First she sinks to her curiously modern view of the knees in quiet grief. Later, she patrols the palace rubbing her and irreverent eyes of the later hands along the wall. Resisting writer. Stein has met the chaldeath at her son's hands, she bears her left bosom. For head-on collision and demon-minutes on end the blade strates how these great plays balances on her nipple. anticipation is unbearable. For audience. One can only con-us, and for the Chorus. When clude that whoever does get Agamemnon dies, the chorus round to doing The Oresteia at

The biggest problem for Stein eyes. as one of the leading is obviously in the third play.

the old chorus boys keel over in dismay.

The inevitability of the training a bunch of appeased spirits after Athene's vote in favour of Orestes has gone against them, is slightly distorted. There is no final Panathenaic procession. purple smocks laid out by Clytemnestra for Agemennon's homecoming. They are then enthroned against their will and wrapped up like so many Mummies. As the democratic The performance of the bril- process continues - the men continue to cast votes while Orestes (Udo Samel) passes through the audience gratefully shaking hands-the ululation becomes tired and inaudible. Athenian society has reasserted the male prerogative and Stein

nonetheless massive. Earlier The Greeks, in which both the lenge of Greek tragedy in a explodes in a communal noise the National Theatre has a very of orgasm. The abruptness with hard act to follow. The entire which they close ranks and line Berlin company is in top form a side wall is positively post-coital. and the performance of Edith Clever establishes her, in my

## London Festival Ballet forms fund-raising association

£100,000 in the past financial year, the London Festival Ballet has formed a new fundraising association, under Lord Chalfont.

"Lord Chalfont already has given us magnificent help with our tour of China earlier this year. Having saved the tour

hair and strips to a white shift. Ballet's chairman said.

It is a maryellous sequence, Next season the company of the company

Faced with a deficit of over dance at the Coliseum three times. Immediately after the spring season of Romeo and Juliet, Giselle and two triplebills, it will join forces with the English National Opera in a triple bill of Bela Bartok's three

stage works. In April ENO will revive his opera, Duke Bluebeard's Castle. and the ballet company will mount new productions of The Wooden Prince, and The Miraculous Mandarin. This ballet is being sponsored by Blessing-well Ltd.

## RUGBY

BY PETER ROBBINS

# A game to match the occasion

THERE IS no greater rivalry ago. Although Wales may mourn between rugby-playing nations this particular loss in their such harmony was a joy for the than that between Wales and centenary year, the game connoisseur Shaw has developed nevertheless served some useful into a fear-some flanker in the plemented each other periods. an integral part of the heritage purpose. of each country that it is all too easy to see why any match the standard of rugby in the between the two is more than UK, for here was the might of just a game.

is an expression of national Second, it indicated to the identity and of Welshness itself. Welsh selectors a series of it is on a par with their weaknesses which perhaps in enthusiasm for education and the European context are not so quite often has the same bene severe. ficial results. In New Zealand So complete was the All one suspects that the game is a Black performance that it was symbol of national virility. hard to understand how they Since neither side has developed had lost to Australia in the the habit of losing too many summer. The key may be that matches, any encounter between them is a special occasion.

Such firm attitudes may lead to the prize being greater than the game itself but on Saturday in Cardiff we were privileged to watch a superb All Black team dismember Wales with as fine a display of rugby as one could hope to see. New Zealand walked it 23-3 but the margin

like kicking form. The most important thing everywhere and Ringer. Squire however, was that the match (before he retired hurt) and healed the sears of two years Williams nowhere.

First, it set in perspective For the Welsh, rugby football second-rate by New Zealand.

> Mourie was not on that tour. On this visit to Wales, he dis-played extraordinary powers of leadership and diplomacy, not to mention a remarkable level of performance.

The preparation has also been thorough, and one of the big differences between the two sides on Saturday was in sheer fitness. The set scrum became pould so easily have been greater almost an irrelevance to the pattern of the game because like kicking form.

almost an irrelevance to the pattern of the game because Mourié, Mexted and Shaw were

space of a fortnight, in the same way that Higginson in the second row has become a true international. He and Reid, the Wales being made to look hooker, were incredibly quick second-rate by New Zealand. around the field, and when Reid scored the last try he had sprinted fully 60 yards to get to Wilson. That was the measure of the mental and physical

> forward play throughout the True, Martin had some firsthalf line-out success, but it was were a match for the All Blacks less a game of static set pieces in the set scrum, it was not un-than one of movement, with the common for the All Blacks to All Blacks smuggling the ball outnumber the Welsh at the cleverly, going down on it loose quickly, and then moving for one. ward again. Haden was monu-

unit, rather than individuals, which stood out. So Loveridge and Allen had several options, which they both used. Both attacked the narrow side with breaks and kicks, and Allen in particular kicked well from out of defence. Welsh hearts Holmes.

were in mouths whenever the Robertson and Osborne complemented each other perfectly in the centre, and when Wales did recaputure some of the old magic in the second half Osborne picked off the attackers with wonderful tackling. That good defensive work also -produced some autonishing All Black counter-attacks, too sudden for Wales to deal with.

After the glories of the 1970s, difference between the two sides even Wales now faces a period and was possible because the of rehabilitation. The All Blacks controlled the original choice of Quinnell and Wheel in the second row seemed curious and whereas Williams, Phillips and Price common for the All Blacks to in gates since the halcyon days outnumber the Welsh at the of the late 1940s and early loose ball in a ratio of four to

Further, the Welsh defence mental in such work, but it was at the fringes of the rucks and thet skills of a highly trained mauls was brittle; but the most depressing feature from Wales's | charges have not helped. point of view-was the lack of support in the back row when someone did make a break National pride was salvaged

On the ball ... ten years too late

SOCCER

of the 92 Football League chair- matches that lack inspiration away from home setting out into difficulties through men that discussed, and recom- and entertainment and com- with the deliberate policy of different interpretations on the mended treatment for some of placency combined with a keeping their goal intact and part of referees. The deliberate the many problems besetting the refusal by directors to accept the settling for a draw. The danger trip outside the box is an game was a step in the right fact that some of the changes is that the increased rewards obvious example, but what about direction—but it should have required could mean the end of will encourage a side to sit back a deliberate hands to prevent a taken place at least a decade their own club in its present on a one-goal lead even more certain goal? taken place at least a decade their own club in its present

## Transfer fees

quite so badly.

Current gross aggregate attendance figures are not only the lowest since the war, but are currently dropping by some 50,000 per week, which is highly disturbing. Some of the reasons for the enormous decline 1950s. like changes in national social habits and the advent of television, were unavoidable, while the present economic crisis and increased admission

But - professional football by some remarkable tackling from JPR, Ackerman and lities, indifferent management, three points for a win instead of the game include making the box, and to capitalise on the Holmes.

THE RECENT two-day seminar crowded fixture list, too many tive approach and to slop teams offence, a move that could run ago, before the situation had form. The game has also taken than at present. (If more goals been allowed to deteriorate too long to climb aboard the sponsorship bandwagon. It is intended that recent

recommendations will be made law at an extraordinary general meeting of the League in the New Year. Few will disagree Potential that the season should open with a flourish at the start of September and finish at the end of May, the extension of the half-time interval to 15 minutes. that half the transfer fee must be paid within a week, and the

ing a game or competition are the outcome is seldom quite as itself is largely to blame for satisfactory as anticipated, the hysterical transfer fees, unlibw law in cricket providing a realistic wages, inadequate faci-classic example. The idea of

were considered a prime objective, an increase in the width of the posts would seem the most simple solution.)

The appeal of Sunday matches is obvious, because there is greater crowd potential than at sides is a godsend to many in any other time in the week. Less the Third and Fourth Division. Although the new requirement enthusiastic will obviously be those living close to grounds. It refusal of the television comis bad enough having to suffer remainder within 12 months, is the hooligan element which shirts. an improvement, it does not does so much to disfigure footsolve inflationary transfer fees. ball on a Saturday afternoon,
All changes to rules governing a game or competition are
Sunday lunch. In addition, invariably well-intentioned, but games on a Friday evening, the outcome is seldom quite as Saturday afternoon and Sunday would also affect the appeal of the pools.

Plans to improve the image

Television did not prove such

an explosive issue at the chairmen's meeting, despite claims that soccer was being ruined by over exposure and that there was a need to increase fees. Some of the big clubs complained, understandably, that they do not receive enough, but at the other end of the scale the £25,000 paid out to all 92 There is also the question of the panies to allow advertising on

If this was permitted, would some of the more famous teams be anxious to be relevised more often so as to increase the charge to the sponsor? This is plainly a matter for discussion when the present contract ends in 1983, but football. like it or

FINANCIAL TIMES

Monday November 3 1980

# A poor choice for America

hetter or for worse, the Ameripowerful political leader in the between the two superpowers. western world, and the choice made by American voters is pressed their support for arms to have repercussions which go far beyond the frontiers of the United States.

In this case, their choice is particularly ounce...
been evident from the unusually high proportion of in the public American particularly difficult. As has polls, the American voters have had a hard time making up their minds between Carter and Ronald Reagan. It is equally difficult for the rest of the world to make a confident prediction about which of the two main rivals would be likely to make a better fist of the job. There is widespread anxiety in America and elsewhere that perhaps neither would do it especially well.

## Impression

Jimniy Carter's record in the White House is not particu-larly impressive. He has some important achievements to his credit: the courageous de-control of gas and oil prices, the Panama Treaty, and (with reservations) the Camp David agreement between Egypt and Israel. But too often he has given the impression of indecisiveness. and inconstancy. and some people accuse him of incompetence.

Governor Reagan's competence is so far untested, since so little experience in national let alone international affairs. He has tended to sound more decisive than Mr. Carter, but too often that decisiveness has appeared to be founded on simple-mindedness and ignorance. As the campaign has gone on, his one-word answers have tended to be more quali-Some people believe that. he secured and depended on first-rate advisers, his tendency to simplify might be preferable to Mr. Carter's excessive interest in detail.

Whoever wins the race will be facing an extremely taxing period in office. In response to obviously explicable in psychothe electioneering is out of the way, the defence spending issue choice.

The election

of a leader

Michael Foot to be followed

Wedgwood Benn who would be

chosen by a wider franchise on which a section of the Party has

now set its heart. A Labour

Party under Mr. Foot and still more under Mr. Benn would

ride for the Tories. A victory

for Mr. Denis Healey, on the

other hand, would provide at

least the possibility of serious

opposition, both in Parliament

It is precisely for that reason

will win. As a politician, as an intellect and as someone capable

of gathering popular support.

he stands head and shoulders

above the other contenders.

There are really only two ques-

tions to be asked about him.

The first is whether, if elected,

he will fight to restore the

Labour Party to some kind of

Mr. Healey has been criticised

for conducting a somewhat

muffled campaign. True, he has

said that if he wins, he will be

prepared to stay as long as the

Parliamentary Party wants him.

which is one way of expressing

scepticism about the proposed

electoral college. He also con-

demned outright suggestions

that MPs should vote on the

leadership in accordance with

more than can be said of an-

sort of Labour Party he would

like to see and its constitutional

doubt. His first task is to be

elected and he will need every

even he is up to the task.

we hope that Mr. Healey

and in the country.

Muffled

WHEN the American electrould continue to play too torate goes to the polls to central a role in American elect its President, the rest of foreign policy thinking, at the the world holds its breath. For expense of other aspects of East West relations, and at the risk of can President remains the most a new and damaging arms race

Both candidates have excontrol negotiations with the Soviet Union. if in different terms, but neither man would find himself in a particularly favourable position for moving in that direction.

After swinging back and forth on the issue, Mr. Carter now wants ratification of the second Strategic Arms Limitation Arms Treaty, but it remains question-able whether he could get the necessary Senate majority. Mr. Reagan wants to bypass SALT II, and move into a third SALT negotiation with the Soviet Union; but it is even more questionable whether the Russians would find that an acceptable option Russian recklessness may have delivered a damaging blow to detente, the more so as it is perceived in America as threatening the vital oil supplies from the Middle East. Yet one way or another. the U.S. has to remain on some

sort of terms with the Soviet

Union.

America's mood of national toughness, which has been encouraged by both main candidates, may also cause difficulties in trans-Atlantic relations within the Alliance. For reasons of history and geography, most European countries are not prepared to abandon what has been achieved in the name of detente for the sake of being tough with Russians. American criticisms that some European countries are failing to pull their full weight in the Alliance may not be entirely unjustified, yet one way or another the next U.S. President will need to manage his affairs so that he is not simultaneously at odds with the Russians and

## European allies. Uncertainties

Conservatives alienating a few Labour MPs by

well-known. He is Atlanticist,

It is the second question that

really matters: could even Mr. Healey save the Party? There

are several reasons for thinking

that he might. The Labour Party has had internal troubles

or social democrat parties are

also in power in much of northern Europe. Admittedly,

those parties too have their pro-

blems: even Chancellor Schmidt

would have to pay more atten-

tion to his own militants if he

gest that there is still strong support for moderately Left-

wing parties and that such

parties can succeed in office. Britain would be the deviant

if its Labour Party were to dis-

integrate. Mr. Healey knows

as much about all that as any-

one else: one would expect him

to seek to develop a Social

Democrat Party with a chance

Yet the inheritance is a cruel

British electoral system of

first-past-the-post, the Labour

Party would almost certainly

have split some time ago. There

would then have been a British

Socialist or Social Democrat

Party and a British Communist

Party competing for votes. It is

tion which has kept it together

If it were not for the

might think that the best out- an unnecessarily pugnacious come of the Labour Party elec- statement. Anyway, Mr. Healey's

tion would be a victory for Mr. political views are in general

shortly afterwards by his pro-Europe and pro the mixed replacement by Mr. Anthony economy.

almost certainly become a before and survived. It has, diminishing force in British after all, been in office for 10

politics, thereby giving an easier of the last 15 years. Left-wing

sanity. The second is whether of winning a general election.

instructions from their constitu- the knowledge that only a mass

ency organisation, which is party can hope to win an elec-

other contender. Mr. Peter so long. The question now is Shore. But beyond that he has whether the splits in the Labour

been relatively quiet about the coalition have become too deep

to be repaired.

The trouble is that on the political front. the future is likely to be rather unpredictable and unstable; on the economic front, the only thing that is predictable about the future is the Soviet invasion of that it will be a great deal more Afghanistan, both of the chief difficult all round. What is candidates have laid consider- needed is an American President able stress on the priority of who can give imaginative and making America stronger in mature leadership to his military terms; opinions may countrymen in coping with the differ on whether such a reac-uncertainties that lie ahead. On tion is enough, though it is balance, Mr. Carter may be better equipped, by his intellogical and domestic political ligence and his four years' terms. The danger is that, once experience, to offer that leadership, but it is not an enthralling

# A measure of self-discipline

"WE have always managed very well at Lloyd's without the heavy hand of burcaucracy and I cannot envisage that this will greatly change. There is a need for reform, but in tying up loose ends we have absolutely no intention of strangling our-seives." — Mr. Peter Green. chairman of Lloyd's, addressing the Institute of Bankers on October 28. OMORROW, for the first time in 30 years, the

private membership of the City of London's famous commercial club. Lloyd's, the insurance market, is meeting to promote a new Act of Parliament. The members are to be asked to approve the planned legislation.

About 4.000 of the total membership of 18,552 are expected to attend the meeting which is to be held at the Royal Albert Hall in London.

The new draft legislation has been prepared after completion of a detailed report into self-regulation at Lloyd's by Sir Henry Fisher, a former High Court judge. The study was commissioned by Lloyd's.

That report, presented to the ruling committee five months ago, raised serious questions about Lloyd's structure, its government, discipline, efficiency, management, security, and its accountability. The constitution of Lloyd's "is no longer appropriate" and the powers of the 16-strong ruling committee of Lloyd's "are inadequate for self-regulation in modern conditions," the report

Sir Henry Fisher's report and the subsequent draft legislation are a direct response by Lloyd's to the growing number of troubles and scandals which has occurred in the market in the past three years, posing a chal-lenge to the way Lloyd's

A dozen of the market's underwriting syndicates, the units into which the members of Lloyd's are grouped, have required special internal investigation, some of which have led to City of London fraud squad inquiries. A broker and an underwriter have been arrested.

Members of the Sasse syndicate, which faced £21.5m of losses, were rescued by Lloyd's. The 110 members had to pay up £6.25m between them, with the Lloyd's community meeting the rest of the syndicate's liabilities. Until the rescue members of the syndicate were suing Lloyd's for alleged broken rules and breach Apart from the Sasse affair, a

Parliamentary question was raised in 1978 into the way a possibly fraudulent claim was



John Moore previews tomorrow's meeting at the Albert Hall, where members of Lloyd's are being asked to approve draft legislation to

reform the insurance institution's system of government by creating a new council and formal disciplinary procedures.

showed that more formal procedures, less dependent on goodwill of the parties involved were needed to deal with commercial arguments.

And in a troubled period for the market Lloyd's is facing its largest ever losses on computer leasing insurances, and has attracted criticism for carrying out inadequate checks on this

As a first step in what Lloyd's has described as a period of controlled change, the system of government at Lloyd's is to be reformed. A new Lloyd's council, which will be a rule-making body, and formalised disciplinary procedures are to be created. These will allow Lloyd's to move swiftly and with more confidence in its powers than in the past to order when the restore freedoms of the market are

members. The creation of a new council is more radical than it appears. For the past 100 years or so mainly by an Act of Parliament established in 1871.

In 1871 there

the

abused by

working

In 1871 there were 675 underwriting members of Lloyd's, all resident in the UK and most of them carrying on business in the City of London. members These

entrusted with the rule-making power at Lloyd's. If rules were to be changed and bye-laws introduced, then a general meeting would be called by the Committee so that any change ettled by the market. could be approved by the ceeded 5.3 per cent in recent Another dispute between a membership. Moreover, the years. That is not representa-

the membership.

In recent years, membership as underwriters, brokers, or expanded dramatically, agents. When the last Lloyd's legislation appeared, in 1951, there working party concluded that were 2,913 members. This year Lloyd's would be best served by were 2,913 members. This year there are 18,552 members and a the number is likely to increase to nearly 20,000 next

not work at Lloyd's and about who do not sit on the existing 2,500 live overseas. Like share-holders in public companies. The new draft legislation preholders in public companies, they provide the capital for the market to function. The large non-working membership generally has little knowledge of the day-to-day workings of the insurance business and does not exercise its right to take part in the government of Lloyd's.

The Albert Hall meeting to aprpove the new legislation emphasises how cumbersome the legislative machinery of Lloyd's has become.

Lloyd's members are drawn from people of financial substance, who have to pass a means test. Usually wealth of £100,000 has to be shown. Landed gentry, politicians, successful businessmen, the odd pop group, journalists, sportstelevision personalities and others representing most aspects of successful and wealthy sectors of society all participate in Lloyd's pros-

The membership backs the risks, receives the profits and bears any losses. Only a small minority attend general meetings; the percentage has not exor so who work at Lloyd's, such

Sir Henry Fisher and his representative democracy, to rather than a direct democracy. with a new council comprised of all interests in Lloyd's, ir.-More than 15,000 members do cluding non-working members

pared by Lloyd's will remove the legislative and disciplinary function from the hands of the Lloyd's membership and place it in the hands of the new council, which would be similar to that of the Stock Exchange. But Lloyd's has back-tracked

on the central concept of representative democracy since the Fisher proposals appeared. Although the new council is to be formed, the membership will be able to have an ultimate say in rule-making matters. Only 500 members will be needed to petition for a meeting, at which, in person or by proxy, the members can overturn any rule or bye-law which the council has recommended.

Mr. Peter Green, Lloyd's chairman, has said that it is not envisaged that this power will be invoked lightly or wanwill be invoked lightly or wan-tonly, and, of course, a third of the membership is required to interests of Lloyd's brokers can vote in favour of any veto turned.

This change and other subtle

broker and underwriters over a claim arising from the destruction of a butter warehouse in the market rested with a trended were largely the 3,000 Lloyd's fear that the introduction of the warehouse in the market rested with a trended were largely the 3,000 Lloyd's fear that the introduction of the warehouse in the market rested with a trended were largely the 3,000 Lloyd's fear that the introduction of the warehouse in the market rested with a trended were largely the 3,000 Lloyd's fear that the introduction of the warehouse in the market rested with a trended were largely the 3,000 Lloyd's fear that the introduction of the warehouse in the market. tion of excessive legalism into the affairs of Lloyd's, together with an officious bureaucracy, will squeeze the vitality out of

the market and lose it business. The 300-year-old growth of Lloyd's has been fostered in an environment which has given much encouragement to the entrepreneur and private enter-prise. The individual freedom of the working members of the community has been respected by the ruling bodies. Codified rules backed by law have barely

There is a significant body of opinion in Lloyd's which feels that the council, as proposed by the Fisher report, would have had too much absolute power. Moreover, the big brokers were worried about the recommendation that the new council should insist that they divest them-selves of their underwriting links at Lloyd's, because of potential conflicts of interests. Over half the underwriting

capacity in Lloyd's is under the management of agencies which are controlled by Lloyd's insurance brokers. The eight largest broker-controlled agencies are in the hands of the eight largest Lloyd's brokers, which between them produce nearly 60 per cent of the premium income of

contribute as much as a third before a council ruling is over- to overall profitability. Naturally enough, the Fisher divestment proposal is being fought alterations in Lloyd's version of hard by the brokers. They want the Fisher draft Bill are the to retain the access to this

power of veto which they have gained for the memership should allow them a fall-back position to resist any proposed bye-law for divest-ment in the future. Even now, some of the large brokers are unhappy about the number of members required to vote in favour of a veto-they think that a third of the membership

is too high. Sir Henry Fisher, in his own proposals, did not include the divestment issue as part of the Parliamentary legislative programme and its future as a hva law is uncertain. Other import. ant proposals recommended in the Fisher report may also fall to be implemented, as the arguments of all vester interests are to be taken fully into account before any bye-law

is introduced. Lloyd's has traditionally relied on consensus opinion and the assent and agreement of its working membership before arriving at major decisions. That will not change There are underwriters at Lloyd's who feel that the draft bill as amended by Lloyd's is too skeletal, not incorporating enough of the hundreds of Fisher proposals in the Lloyd's Act and leaving too much certainty for the future. Other members feel that perhaps there should have been precise definitions of the role and duties of underwriters and when possibly fraudu brokers lent claims come into the

market And of course there are those that feel the Fisher proposals and further legislation are unecessary. What Lloyd's has prepared is

essentially an enabling Bill. It is a comparatively brief document. The brevity owes much to Lloyd's efforts to meet its Parliamentary deadline of November 27. Lloyd's has preferred to leave most of the Fisher proposals for the new council to consider and estab-lish through bye-laws at its discretion. This allows the new governing body the greatest flexibility and room for

Sir Henry Fisher, in submi ting his report to Lloyd's, said that if Lloyd's could be strengthened by the new con-stitution and self-regulating powers it would be able to "put aside any suggestion that it is not in control of its own mem-bership and affairs."

To achieve this, it is important that Lloyd's sustains the spirit and essential details of the Fisher report when it comes to establishing its bye-laws. Since the new council will not be fully in action until 1982, the existing archaic structure will have to continue to serve the community.

## WHO'S WHO AT LLOYD'S

SYNDICATE: Group of underwriting members. To allow a certain volume of insurance business to be accepted speedily themselves into syndicates. Some syndicates have hundreds of members, some a handful.

ACTIVE UNDERWRITER: Person (usually, but not necessarily an underwriting member who accepts the insurance risk on behalf of syndicate of underwriting members. Over 15,000 members do not work at Lloyd's but 'invest" in the market by committing their UNDERWRITING AGENTS: Groups which

manage the affairs of the members of Lloyd's. A managing agent manages a syndicate or a number of syndicates. A for membership, and introduces members to syndicates.

BROKERS: An insurance broker buys insurance on behalf of a client. Brokers who use Lloyd's need special approval by Lloyd's before doing business there. Lloyd's has no direct dealings with the public. Business must be channelled to underwriters through the brokers. Large Lloyd's brokers often have shareholding links and control of managing agents.

## MAIN POINTS OF THE BILL

A new Council of Lloyd's is to be formed of 25 members to make general rules and

members of Lloyd's elected by other working members. Six "external members"-those who do not work at Lloyd's but who commit their wealth to allow the market to function—to be elected by other external members. Three of the Council members are to be drawn from those outside Lloyd's, who are not members. The outsiders will be nominated by the Council and their appointments confirmed by the Governor of the Bank of England.

 The Council will manage and supervise the affairs of Lloyd's but will have the power to delegate the regulatory powers to a com-mittee of Lloyd's, which will consist of the 16 council members who work at Lloyd's.

Any bye-law which the Council introduce can be vetoed by the membership. If members wish to review a bye-law in hy the Council, a notice in writing signed by 500 members may be served on the Conneil calling a general meeting.

• A disciplinary committee and an appeal tribunal to be created by bye-law by the

## Taiwan takes off the brakes

Stopping the free-wheeling operations of industrial forgers in Taiwan has now become an urgent priority for Ferodo brake-makers, Turner and Newall.

The company, which opened a £2m factory in Nigeria last year to make its brake linings and disc-pads, is finding the country flooded with phoney Ferodo products. "If the forgeries continue on the present scale for another six months, the viability of the whole factory will be threatened," says T and N director, Ronald Somerville.

The Taiwan source of the counterfeits was tracked down did not rely on a coalition with the liberal Free Democrats. But the European example does sug-the European example does sug-an Aladdin's cave of forged and penetrated by two intrepid automotive components, bearing brand names like Lucas and AE as well as Ferodo.

Taiwanese ingenuity did not stop there, they were amazed to discover. They were asked if they wanted the Ferodo products as made in Chapel-en-le-Frith or in Italy. The packaging for each variety was perfectly simulated.

Company lawyers are working overtime to end the freebooting operations which, says Somerville, threaten more than T and its official colour from tradiits official colour from tradi-N's profits. The braking distance for a car fitted with the genuine Ferodo product and being driven at 40 mph in good conditions is 56 feet. Company tests on the Taiwanese version show the equivalent figure is 317 feet.

## Prize past

Currently whizzing round New York, London and Paris, the inexhaustible vice-chairman of The controversy has now Svenska Handelsbanken, Tore focused over the head of Browaldh, was not at home to hotelier Reg Matthews, who has receive my congratulations yes-

It is the state of the Labour This non-smoking, teetotal, slap a new coat on the island's chocolate-addict pillar of the first post-box.

Swedish establishment has been This was erected in 1852 after rrangements. Party that makes one wonder There is a case here for giving whether even Mr. Healey could Mr. Healey the benefit of the perform a rescue act. We elected to membership of the Anthony Trollope had visited should like to see him succeed. Royal Swedish Academy of the island to inquire into the Sciences. He thus joins the elite improvement of its postal serbut we would not pretend that vote that he can get. It would the break-up of the Party would have been foolhardy to risk be a tragedy. group which yearly distributes vices,

the Nobel Prizes for physics and chemistry and the economic red or be repainted in its science award instituted in original colours—green with Nobel's memory in 1968 by the black lettering and gold coat of Swedish Riksbank.

Appointed chief managing in the centre of things at the bank, Browaldh maintains a formidable list of business commitments. Chairman of Volvo and eight other major companies, he sits on the advisory boards of Unilever and IBM Europe, and reportedly runs all his affairs at top speed.

syllables a minute, he even drafts his own correspondence in shorthand, leaving his corps of three secretaries merely to do the typing. And while they are tapping away, I hear, Browaldh the jazz-lover is wont to sneak off to the bank's main dining room and indulge in a quick burst of Tiger Rag on the company piano.

## Moody blues

Through its own efficient channels, I hear that Guernsey's Post Office Board is having trouble brushing up its corporate image. tional British red to a distinctive shade called "French blue" to promote philatelic sales. Overseas customers have been responding so well that profits from the sales this year are expected to double to more than £1m.

But the islanders are still objecting strongly to the repainting of their pillar-boxes. Blue is a colour that few apparently like and many complain cannot be seen at night. flatly refused to allow the Post Office artists on his property to

He insists it should remain

The Post Office has retired to director of Handelsbanken at think it over, though vice-the age of 39, he moved up to president J. A. C. de Garis ing in general appeared to be chairman between 1966 and thinks that a little white lining due neither to lack of food nor 1978. Although he is now less yet to be added to the blue will remove the discordancy. Cost of the changeover, he insists meauwhile, has "absolutely nothing" to do with the increase looming in local postal charges.

## Poetics injustice

"Aristotle and Machiavelli go Boasting a "note" of 200 home" is an improbable political slogan to be found in an election. But the two philosophers have cropped up as an issue in Montgomery County, in the suburbs of Maryland. The sort of place where people norm-ally flock to live, it is one of him for some time," Bryans the wealthiest counties in the responded amid laughter. U.S. and its institutions, above all its educational system, are Reeves an immediate popular considered among the best in

But a high school teacher agains there. Cyril Lang, is being cried cause he insists on teaching Aristotle's poetics and Machiavelli's The Prince to his English class of 15- and 16-year-olds. The school board, intent on

applying a uniform curriculum throughout its schools, has, in its imperial wisdom, decreed the works too difficult for teenyboppers and recommended them The bureaucratic squabble, of course, masks the political. School board elections this week

pit liberals against the conservatives with a vegeance; the former want maximum teacher freedom, the latter a prescribed, and controlled, reading list. spirit. Aristotle-" Man is by nature a political animal —would first action to stop the debase-surely have understood. And ment of the coinage in 1561,

## **Boarding out**

smiled with satisfaction.

"Mr. Chairman, is food going

level is dropping rapidly." towards the end of the near three-hour extraordinary meetinsurance broker, Christopher Moran, at the to the opening of a bar during the protracted proceedings.

"It's like Barnum and Bailey's circus," yelled a bemused bystander trying to distinguish between those directors making their exit, those making an entrance, and the legal advisers who outnumbered both sides. David Bryans, co-opted by

Christopher Moran to take the chair, had some difficulty explaining the credentials of the new board. Ronnie Reeves was to be elected, he announced "Who's he?" several share "Who's he?" several share-holders queried. "I have known It was not enough to gain

vote. The first count was tied 13-13, and a recount went 19-15 against him. "Get out of that," another threatened with suspension be cause he insists on teaching gave him 9.9m votes with only 8,000 against.

## Price age

Margaret Thatcher might have made a better historical choice than Queen Elizabeth I as a model for her determined war against inflation.

Barrister and Blackburn Labour MP, Jack Straw, began browsing through a few economic histories after the Prime Minister's weekend call for a renewal of the old Elizabethan

Good Queen Bess took her Niccolò-"It is much more he tells me. Tudor price rises secure to be feared than to be were only curbed in the 1630s loved "-would doubtless have according to some historians. Others argue that industrial prices did not level out until more than a century later in the 1670s.

Observer |

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# FINANCIAL TIMES SURVEY

Monday November 3 1980

# Office Equipment

The technology is available to produce major increases in office efficiency and productivity. But first it will be necessary to unite both users and suppliers of the advanced equipment in a common desire to bring about the new order—a task requiring the will of Government, managements and workforce.

# Big scope for savings.

By Guy de Jonquieres

IT IS barely three years since Mr. James Callaghan, Britain's former Prime Minister, dis-covered the existence of the chip" by happening to tune into a television documentary about microelectronics and decided that it was high time

that Britain got into the act. The result was a spell of agitated consultation in Whitehall, which spawned Government support for a slew of new projects. They included Statebacked ventures in integrated circuit manufacturing (Inmos). computer programming (Insac) and programmes to encourage and is growing by 10 per cent industry to use microelectronics in their products and processes (MAP and MISP). Now a new buzzword is

circulating in Whitehall: "Information technology," sometimes referred to less elegantly as "telematics." Once again warnings are being sounded Information technology (IT world

for short) is a somewhat already enjoys a substantial amorphous term which covers lead. But even there, it is said, broadly the application to it is increasingly recognised information handling techniques of increasingly inexpended advanced data communications sive microelectronics and and processing systems are advanced communications technology. It embraces a vast of most private companies. range of products and systems. ACARD recommends that

The most recent official obiter report issued last September by responsibility of a single mitthe Cabinet Office Advisory ter and that legislation Council for Applied Research passed where necessary and Development (ACARD), stimulate and facilitate the It finds two definitions for IT: application of IT.

"On the one hand, the term may be confined to the actual equipment used to collect, store. process, transmit and display between measures to encourage information. On the other, it its application and the steps remay encompass not only the quired to stimulate industry to equipment (and the software supply the necessary equip-that controls it). but its interment. In the former instance, actions with human activities the fact that the ACARD study and the management systems was published at all suggests necessary if the capabilities of that awareness of the technology new developments are to be among potential users is still

fully exploited."

ACARD estimates that the world market for IT products is worth about £50bn annually are almost unlimited, stretching is across banks, shops, business In-houses, factories, government offices and the home.

As the report points out, other countries have been quick to recognise the signifiwith its dominance of the

range of products and systems. ACARD recommends that in extending from desk-top micro- Britain, the Government step computers or word processors up assistance to research and to extremely sophisticated and development, training and costly communications services implementation of IT. It probased on satellites or optical poses, among other things, that responsibility for co-ordinating Government actions in the dictum on the subject is the sphere be brought under the responsibility of a single minister and that legislation be

Clearly, any policy to speed the development of Information Technology needs to distinguish was published at all suggests at a fairly low level.

Hammering

By common consent, the office presents one of the most proa year, in real terms. It believes mising opportunities for autothat the potential applications mated information bandling techniques. For years, management consultants have been hammering away at the fact automation, per office employee, has been a mere fraction of investment per factory worker.

One of the most comprehen-

CONTENTS West Germany Viewdata Facsimile Japan Reprographics France Calculators UK companies Word processing Dictating machines Micrographics European companies **Typewriters** Smaller computers North America Furniture VII Social impact **Mainframes** Data communications Office buildings Internal networks TIIV Vending machines Office design Computer services

potential benefits of office automation was completed recently Booz-Allen and Hamilton, the U.S. management consultancy. On the basis of a yearlong study of 15 major American companies. Booz-Allen estimates that U.S. managers could achieve productivity gains worth \$125bn annually by 1985 and \$300bn by 1990 by making full use of automated office

equipment. The report finds that managers and other "profesfinds that sional" staff spend between 15 and 40 per cent of their time performing what they consider unproductive activities such as formation or chasing up work done by other people.

Most. if not all, of these tasks could be handled by office information systems at a saving that would cover the required that Britain is in danger of cance of the new technology. The scope for increasing investment in just over a year, being left behind in a fiercely and governments notably in efficiency and productivity the report says. Moreover, should therefore be enormous according to Booz-Allen, many and anxious civil servants are giving heavy supnow that the appropriate technology is available.

The scope for increasing investment in just over a year. In a would cover the required and governments notably in efficiency and productivity the report says. Moreover, should therefore be enormous according to Booz-Allen, many one that the appropriate technology is available. productivity to increase their computer industry, sive attempts to measure the output rather than cut staff.

As in a number of other studies in this field, the Booz-Allen report emphasises that the biggest savings from office automation will be achieved by raising the productivity of managers and other decision-makers, rather than of clerical and secretarial staff. It also tends to assume that business will be driven to automate their offices by the pure logic of economic necessity, in the form of rising overheads, the need to maintain competitiveness and so

But some caution should probably be exercised in transferring the lessons of the U.S. experience directly to Europe. One reason is that American managers appear to be considerably better-equipped than their European counterparts to operate modern office machines which, for the foreseeable future, seem likely to require a proficiency in using a keyboard to enter and retrieve infor-

The Booz-Allen study reveals that no less than 59 per cent of managers interviewed how to use a typewriter. (The

explanation, incidentally, is that but also by the wider commer-ment most American executives have cial and industrial environment. attended a university, where they were encouraged to type their examination papers). No comparable figure exists for

more than 25 per cent. The economic rationale for of new terminal equipment, office automation may also be

But there is little nursees different on the two sides of the Atlantic. In the U.S., the differential between the pay of corporate executives and that of secretaries and clerical workers is still quite wide. Wider, certainly, than in Britain, where the salary of a middle manager may sometimes

of an experienced secretary.
It may well be, therefore, that some British companies will be moved to automate their offices more out of a desire to reduce secretarial and clerical overheads than to boost the produc-tivity of their executive staff. For this reason, perhaps, more concern is expressed about the risk of job losses by clerical unions than is heard from the ranks of managers.

## Further training

A recent study by the Equal Opportunities Commission esti-mated that the introduction of office information technology would mean the loss of up to 170,000 secretarial and typing jobs in Britain by 1990. It suggested that the best way to mitigate unemployment would be for female office workers to be encouraged to obtain qualifi-cations which would enable them to take over some added responsibilities in the field of

The speed at which office auto-mation is introduced will be governed not only by its social

Britain, the Government hopes that the planned relaxation of the Post Office monopoly will managers in Europe, but it is help lay some of the groundwork unlikely that it would be much by encouraging private by encouraging private suppliers to offer a wide range

But there is little purpose in offering businesses sophisticated office products, many of which will be designed to link into the communications network, if the Post Office is no more able than at present to provide the necessary private circuits and telephone lines. This is a point grasped early on by the French Government, which is spending be only twice or less than that massively on improvements to its national telecommunications network, on which it is committed to offering advanced public services such as videoconferencing, a national facsimile transmission system and satellite business communica-

> But stimulating awareness of and demand for Information Technology is only one side of the coin. The other is to develop the industrial capacity to supply the products required: otherwise there is a risk of creating a new market which exporters in other countries will be only too happy to fill. Many powerful American corporations, including Inter-national Business Machines, Xerox, American Telephone and Telegraph and Exxon are squaring off for a major battle for supremacy in the rapidly-growing U.S. market for Infor-mation Technology. By virtue of their size, resources and

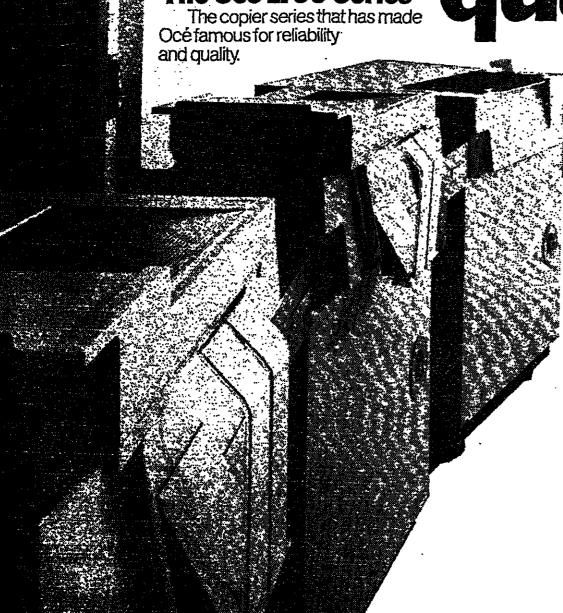
strikes a satisfactory balance between the consumer, in the form of the users of information technology, and the pro-ducer, in the form of the industries which supply the necessary equipment and services, may

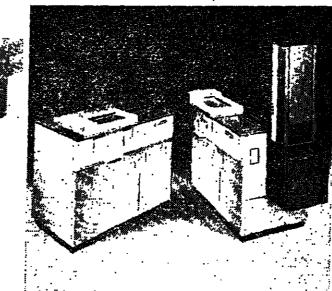
not be casy The still undecided question of how the British Government should award the forthcoming to computerise the Inland Revenue's Pay-As-You-Earn operations is seen by many as a test case of the issues involved. Ministers have been deeply divided between those who want the order to go to International Computers (ICL) in order to strengthen Britain's principal computer manufacturer, and those who favour opening the bidding to U.S. companies in the belief that they will offer a superior technical

solution The arguments remain finely balanced, and the issues in-volved are unlikely to be finally resolved whichever way the decision goes The debate about how best to harness Information Technology once it gets going, is likely to range considerably wider and to be even fiercer

But recent experience in other, related fields, such as microelectronics, seems to point at least to two general conclusions The first is that, despite the growth of overt and covert protectionism, the big battle for sales of advanced technology products are those who think in terms of world markets, not national ones. The second is that in advanced techresponsionnes in the heid of their size, resources and second is that in advanced techniques at which office automation is introduced will be governed not only by its social and Xerox already have estaband psychological acceptability, lished positions in office equip-

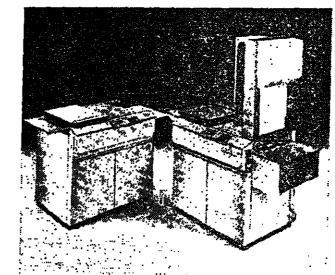
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# Rising reputation as a competitive centre

**WEST GERMANY** JEFFREY BROWN

WEST GERMANY is the largest office equipment market in Europe. To the extent that the country possesses the largest economy within the EEC, this is understandable. But the size -and projected rapid growth of demand for data processing equipment also reflects a number of other important influences.

One key is the technological strength and ingenuity of the German electronics Siemens has made significant inroads into the near stranglehold once held on the European computer market by the U.S. monolith in the industry, IBM. At the other end of the business, Nixdorf has an enviable reputation in small computers as well picked up a large slice of the Nixdorf holds some 30 per cent as a number of important mar-business.

of Unidata, the French, Dutch and German grouping which kets shares.

Similarly, Triumph-Adler is pushing hard for a greater slice of available business, and doing so on a world-wide basis now that it is backed by the powerful financial muscle of the Volkswagen motor group.

Kienzle and Ruf figure prominently on the list of successful German companies in office electronics: among those with a multinational manufacturing base, AEG-Telefunken, Manessmann and BASF stand out.

per cent but the sharpest growth in the industry was concentrated German manufacturers

Demand for data processing equipment continues to rise at all levels. During the second quarter of 1980 telecommunications production in West Germany advanced by close on 16 per cent while output in computers expanded by almost 10 per cent. By 1984 the market in the Federal Republic for copiers, word processors and office systems is reliably forecast to be around 50 per cent greater than it is today.

IBM remains the market leader, both in technological Overall, West German data advance as well as in pricing. processing sales expanded by The U.S. giant still has a share engineer. Among the major 22 per cent in volume terms last of the German data processing European electronics groups, year. Small and office sized market in excess of 50 per cent computer installations rose by 21 (if only just these days) but the company faces a number of increasingly competitive battles. in process control and mini com- Siemens now controls around puters. Expansion here was no 18 per cent of the market in less than 35 per cent in 1979, mainframe installations in Germany while in small systems

Siemens has strong links with Fujitsu: earlier this year chemical giant BASF entered an agreement with Hitachi allowing Japanese hardware to be marketed under a BASF label.

1879 Suggest that the group is already some four-fifths of the calms a 9 per cent share of the European market.

AEG-Telefunken pulled out of mainframe computers in the mainframe computers in the company to Signature.

petitive centres for office equipment in Europe—and the key to this trend is the sheer size the market in European terms. Deutschland, mainframe installations in Germany in 1979 rose by 15 per cent to 24,000 providing the Federal Republic the broadest computer

base in western Europe. Far and away the leading manufacturer is Siemens. As an electronics group, Siemens ranks as Number Two in Europe (after Philips) in terms of turnover and is Number Four in the world. It is successful, with earnings growth averaging 10 per cent per annum over the past five vears, and despite the strength of the DM over the period it has been a major and consistent exporter. Currently, some two-fifths of West German output finds its way overseas.

The company represents one of the commanding heights of European technology, backed by an appual research and velopment budget in excess

Contrast

In contrast to power engineering and telecommunications, nens' data and information systems operations are rela-tively modest, accounting for just 6 per cent of sales in the year ended September, 1979. But the division, working from end of 1978-79, against DM 1.4bn two years earlier, and profits over the period had advanced by a third. The main contributor to sales

in this division, data processing, moved out of the red in 1977-78. The other activity, small computers and peripherals, con-tinues to make start-up losses and is likely to stay in the red for a number of years yet. The company's project development spending is heavy; this topped 30 per cent of annual spending is heavy; 30 per cent of external sales last year, compared to less than a tenth at ICL of the UK.

the German market.

and German grouping which
Moreover, as part of a broad was to have been the main Eurostrategy a number of German challenge in computers, Ste-companies have linked with mens is now firmly established Japanese producers and in so in electronic data processing. Japanese producers and in so in electronic data processing, doing have intensified the battle Orders on hand at September, against IBM domination, 1979 suggest that the group is

The German market is thus mid-1970s when selling to Sieincreasingly acquiring a reputamens, but the company has a tion as one of the most comsizeable stake in the smaller business machine market, and is the largest typewriter manufacturer in the world. A late entrant to the market for electypewriters, AEGO tronic typewriters Olympia operation launch in this field in Germany in July 1979. The new electronic product aims at the standard office machine market.

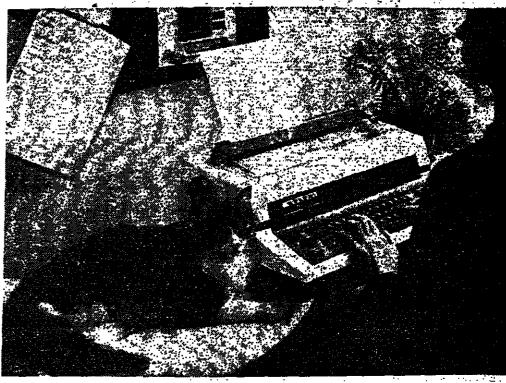
## Virtues

In comparison with the financial virtues displayed by Siemens, AEG's record is blemished almost beyond recog-nition. After years of lossmaking, it came close to financial collapse last year only to be rescued by a massive capital injection by the State and the German banking system. Losses this year are going to be heavy, but the management clain some progress on along the road to profits for 1981.

During the first five months of this year new orders at Nix-dorf rose by 43 per cent and in contrast to much of West European industry — the com-pany has been busily signing up new staff. Founded in 1952 and still family controlled Nix-dorf's market shares in its field are two to three times larger than its closest German rivals.

For new owners Volkswagen, Triumph-Adler represents the first major diversification away from the motor industry. The company has a wide range of this small base, is the fastest products covering the area of growing within the group: typewriters, computers, text orders stood at DM 2bn at the processors, copiers and calculations of 1978-70 areas and calculations. processors, copiers and calcula-tors. The cash backing now available to its management is allowing the move into an increasingly ambitious range of electronics to be accelerated.

For its part, BASF entered the computer industry as recently as July this year when agreeing to market Hitachi com-puters under a BASF name. The chemical group has excellent credentials in peripherals and media supplies, and clearly it aims eventually to become a complete systems supplier. It has already struck out into the



In a further effort to help reduce the overall noise levels to which office workers are subjected each day, the Office and Electronic Machines group (OEM)—UK distributors of Adler and Imperial office equipment—have launched a new quieter "golf ball" single element typewriter. As the latest in the Adler and Imperial electric "golf ball" ranges, the element typewriter. As the lalest in the Adler and Imperial electric "golf ball" ranges, the new machines are called the Adler SE 1000 CDL and the Imperial SE 5000 CDL and have "integrally insulated" to ensure a noise level emission of no more than 68



There is fierce competition between European office furniture manufacturers, particularly in the area of furniture suited for use with new technology. The Swedish-made VDU furniture (above) from NKR is described as being ergonomically correct with the operator's comfort paramount in the provision of both independent height and lateral adjustments for keyboard and display screens, tilting of the screen surface to obtain the correct head position and



typewriters fill the gap between the conventional personal computer market both in Germany and in the U.S. facility for stencil typing. the tupist time and effort. After the abortive formation recessed legs for ease of sideways movement. If you call a service engineer to your Xerox copier, better hope they don't all turn up at once.

There are 1600 of them.

Waiting at the end of 120 local telephone lines, and supported by 50 spare parts depots.

So that even if you plumped for the smallest Xerox copier, there's always someone to come and look after it.

He won't shake his head and mutter about waiting weeks for parts. The furthest any would have to travel is 213 miles. And that's from our parts depot in Aberdeen to

Kinlochbervie, West of Cape Wrath, on the far North-East coast of Scotland.

In big cities like London, Liverpool and Manchester parts arrive in a couple of hours.

Not that we expect you to need them very often. The latest Xerox copiers are either very simple with few moving parts, like the Xerox 2300.

Or they have their own fault-finding microcircuits

which tell you exactly where the problem is and how to deal with it yourself.

Since most copier problems are paper blockages the machine can be back to work in minutes instead of days.

And so can you. For information about Xerox copiers, dial 100 and

ask the operator for Freefone 2279.

هكذامن التحل

Text generation

largest office market segment.

Altogether, there will be more than \$16bn-worth of office

automation equipment world

wide by 1990, according to a study made by Predicats Inc.

This compares with less than

At present, the world-wide automated office equipment

business is dominated by the

Xerox group with its affiliates such as Rank-Xerox in the UK

Japan and South-East Asia, But

other companies such as Exxon,

Kodak, Wang Laboratories, Burroughs and Lanier are expected to move into the

market during the last half of

panies engaged in the copier market worldwide. The Japanese bave cornered the

lower end of the market while

the foreign companies concen-trated on the high-volume users.

low-to-middle segment of the

the higher end where profits are

Sharp are the major Japanese

companies. Fuji-Xerox and

Ricoh dominated the Japanese

copier market up to now but Canon, Sharp, Toshiba, Konis-hiroku and Minolta have

launched sales offensives for

Ricoh is planning to sell direct in the U.S. and Europe

where, previously they sold through Savin in the U.S. and Nashua and Kalle Infotec in

Europe. Present plans are for

Ricoh to sell new models directly and the older models

through their present arrange-

ments until 1983 when they

to renegotiate their

growth in the market.

hope

Ricoh, Canon, Minolta and

There are more than 20 com-

\$5m in 1978.

the 1980s.

大大 小概 1

# Manufacturers speed up new developments

JAPAN JOHN FUJII

JAPAN HAS been lagging behind Western countries such as the U.S. in office automation by at least five years. Office automation is necessary to imhave been slow although they have been world leaders in industrial productivity. But now guage. the Japanese are stepping up their development of office equipment, such as word proces-

The biggest bottleneck to office automation in Japan up to now has been the Japanese language which has held up growth of the Kanji (Chinese character) word processor. At present there are two types of Japanese word processors. One is the tablet type in which an electronic stylus is used and modelied much on the old mechanical Japanese type-writer. This has a battery of

The latest Japanese word promethod shortly where cessor is the type developed by a better final copy.

Fujitsu Limited which provides there are now between 1.000 (OCR), private telephone exup to 80,000 characters avail- and 1,500 units in actual change and other office periable in a floppy disk storage, operation throughout Japan and pherals, Fuji-Xerox has a Fujitsu's OASYS-100 model for growing rapidly, while Toshiba patent pending for an Ethernet instance, provides 60,000 kanji, said that the price of their unit office interconnection while the 20,000 proper names and 48 common expressions, and Toshiba's JW-10 makes 80.000 characters available.

The Japanese manufacturers have taken the idea of their word processors from the U.S. It was first developed at Massa- need at least one. prove management produc- chusetts Institute of Technology tivity in which the Japanese (MIT) and at Harvard, where the kanji processors were developed for the Chinese lan-

Toshiba introduced their JW-10 model Japanese word processor in 1978. They were quickly sors, copiers, facsimilies, small followed by Sharp, Ricoh, business computers, and peripherals.

Canon, and Nippon World Processors in 1979 and in 1980, Nippon Electric, Communications, Matsushita Pontel and Oki Electric bave come out with their models. So far, only Toshiba, Fujitsu, Oki, Ricoh and Canon have the

new keyboard-display word processors while Sharp, NEC, Matsushita and Mitsubishi Electric cling to the older tablet model. Copies are made either by 16-dot or 24-dot printing. Toshiba already has a 24-dot while Furitsu announced it will be converting to the 24-dot method shortly which provides

specifications as well as ordinary business messages.

The addition of an automatic telex transmission facility will enable the Japanese message to be translated into English by an automatic translating machine and then transmitted abroad. Thus a Japanese message can be put into an office automation

An industry estimate is that optical character recognition has come down from Y6.3m Xten system is becoming avail-(\$30,000) to Y2.6m (\$12,380). able for satellite communi-Kenichi Mori, chief analyst at the Toshiba Information Systems Institute, said that equipment — typewriters, word processors and dictation unitseventually every section in are expected to overtake repromajor Japanese offices would duction equipment, such duplicators and copiers as the

Language barriers

The Japanese word processor is definitely not for export. The Chinese language is basically different from the Japanese and Japanese unit cannot be in Chinese-speaking used in Chinese-speaking countries. There is some possibility that the Japanese processor could be converted for alphabet is similar to the Japanese Rana alphabet. In simple terms, the Japanese word processor transcribes the words expressed in Kana on the keyboard to Kanji characters in

spersed with the necessary There is also rapid growth in Japan for English word processors, especially in trading companies which have a lot of English correspondence shortcoming, however, is a lack of middle management people

who can handle word proces-

the written document inter-

either in Japanese or market but are now moving into The next development in office automation is for the word processors to be linked to communications equipment so that there can be a link between sections in one office or between the main office and its branches. This would speed up the preparation and transfer of documents, explanations and

system, translated and trans-mitted overseas.

CANON: Sales for 1979, Yen 180bn: net income. Yen 9.5bn. Like Ricoh, a broadly camera group with strong ambitions in the area

of business machines. Cameras account for 52 per cent of turnover with copiers representing 24 per cent and calculators, 13 per cent. Exports—mostly eameras account for nearly threequarters of sales.

**FUJITSU** 

Sales for year ended March, 1980, 500bn: net income Yen 15bn. Japan's largest computer group. Fuji Electric is a major shareholder. Computers and data communications

Some major participants in the business

equipment market in Japan

account for two-thirds of sales of which exports make up some 16 per cent. Strong tles with TRW and Amdahl in the U.S., and Stemens in West Germany. Plans integrated circuit plant for Ireland.

## HITACHI

HITACHI. Sales for year ended March, 1980, Yen 1,800; net income Yen 50bn, Largest electrical machinery maker in Traditional heavy electrical base still dominates. but sales include a 26 per cent contribution from communica-tions and electronics. Has links in computers with Fujitsu. In Europe, market-ing links forged with National Semiconductor, Olivetti and

MATSUSHITA

MATSUSHITA: Sales for year ended November, 1979, Yen 1,726bn: net income Yen 61bn. Largest consumer electronics group in the world with brand names like Panasonic and Technics. Big in home appliances and radio equipment. Communications and audio visual operations are concentrated in the 67 per cent-owned. Matsushila Com-

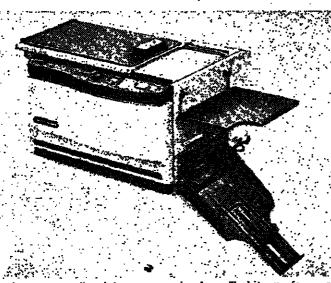
munication Industrial.

for year ended March, 1980, Yen 705bn; net income, Yen 12bn, Major telecom-

munications number seven in world rankings. More than a quarter of sales stem from computers and industrial electronic systems. Plans to set up an integrated circuit plant in Scotland which would represent Japan's first ever microchip investment in Britain.

March, 1980, Yen 223bn; net income, Yen 12bn. Major camera group, but also Japan's largest producer of copiers.

Cameras still more than half of turnover, but a major push into business machines has lifted copier sales to a quarter of total with calculators contributing 13 per cent. Just started direct selling in



A new versatile plain paper copier from Toshiba performs a wider range of copying tasks than is usual. It is the BD-3802, now available in the UK-from the distributors, the Office International Group

ment such as sorters and automatic document feeders—preare small and ultra-small commatic document feeders - previously adopted by Fuji-Xerox, IBM Japan and Canon for their high-speed models which can provide 40 copies or more per

Companies like Toshiba, Konishiroku and Matsushita also intend to market peripherals for use with medium- and highspeed copying machines. Plain paper copiers are being incor-porated into systems with other office machines such as small computer facsimiles, word processors and microfilm equip-

## Rapid growth

In Japan the facsimile manufacturers are mainly electrical appliance and office machine companies. The number of facsimile units installed and operational in Japan was estimated to be between 150,000 and 160,000 at the end of 1979. Annual production is now approximately 50,000 units which is worth up to Y60bn (\$285m). Rapid growth of 30 per cent per annum will make it a \$715m industry by 1983, according to industry estimates.

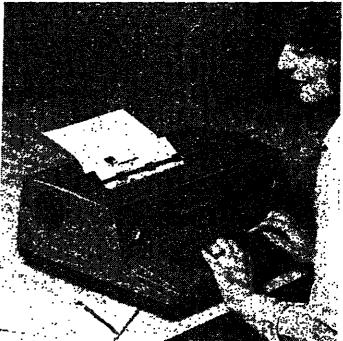
Small office computers are a story in themselves. According to MITI (Ministry of Inter-In the future, facsimiles may Some of the copier manufac-be combined with an office com-turers are promoting and there were 58,944 systems worth puter, word processor, copier, marketing peripheral equip-\$13bn in Japan at the end of

puters. Of this, office computers total 15,000 units with a 30 per cent annual growth—office compayrolls, inventory controls and sales management—and they are expected to have a total market of \$950m in 1980 growing to \$1,428m in 1983.

In Japan, the manufacture of these very small computers is expanding rapidly, and the Japanese computer manufacturers involved are Fujitsu, Electric, Sharp, Hitachi, Matsushita and Canon.

Eventually the complete auto-mation of tomorrow's office would require that these small individual computers, fac-similes, copiers and word processors be joined together in a system.
The Japan Business Machine

Makers Association, which has 32 members, said the industry has grown from \$44m in 1960 to \$2.4bn in 1980. The association estimates that exports of business machines in the fiscal year 1980 tending in March 1981) is expected to increase by 7.7 per cent to Y428.6bn or \$2bn, The breakdown: copiers, \$809.5m, up 17.1 per cent; type-writers. \$182.3m, up 16.3 per cent; electronic cash registers, \$271.4m, up 6.2 per cent and electronic calculators, \$733.3m,



A new lower-priced electronically controlled typewriter is being introduced from Japan with the aim of extending the market into the smaller business area. With a price little more than the cost of th caverage manual typesingle-element typewriter has

the same electronic simplicity that powers the more expensive SR-25-CE. Both machines are from Silver-Reed, one of the world's leading typewriter concerns. The "Popular" has versatile electronic carrier

produce such outstanding copies, must be jam-packed full of ingenious electronics - in other words,

there's lots to go wrong. Well, yes, there is lots that can go wrong, but very little that actually *does*.

Because a long time ago we decided that you not only deserved excellent copies, but also a copier that didn't keep going wrong. So reliability has been built into every EP310 right from the word go.

For example, we've made the paper path as short and direct as possible to prevent jamming and paper eating.

The inside of the EP310 is totally accessible, and even the paper

# Ordinary copiers twice its size The trouble with most copiers The trouble with most copiers

is that their copy quality is directly proportionate to their size.

So, if you want a high-quality copier, you will not only pay for it financially, but with valuable office space too.

And that is what makes the Minolta EP310 twice as good as any ordinary copier, even those that

Because, although it's amongst the smallest copiers on the market, it's also one of an elite group of Minoltacopiers producing the very best quality prints on the market.

We at Minolta have developed a unique copying process called 'microtoning'which, put simply, means that every single copy is as

possible to the original.

paper like many small copiers.

If you wish, you can use your own headed notepaper.

In fact, microtoning will even make it possible to copy onto film.

You may by now be thinking that a copier this small, which can

Please send me more information on the EP310 [	]
Please ring to arrange a demonstration 🔲	
	-

Send to: L.Lvons, Minolta Business Equipment (UK) Ltd., The EP310 doesn't rely on special 10/12 Erica Road, Statesy Bushes, Milton Keynes MKI26HS. Telephone (0908) 518635/318658.

Nature of business

Telephone.

Minolta EP310 Improve your image.

## Some of the UK's major participants in the business equipment market



PUTERS: Sales in 1979 were £624m. The only British and European independent manuputers, ICL was cut free from the National Enterprise Board at the beginning of the

year.
ICL office systems include minicomputers and word pro-cessors. Only real challenger to the Americans in big main-frames outside Japan.

pany, established by National Enterprise Board two years ago to develop and supply modern office products and

systems. Does not make own products but works with manufacturers including Muirhead and Logica in Britain and imports some Japanese equipment. Prouct range includes powerful computer made by Exxon subsidiary Delphi, word processors, fac-simile machines and copiers. Its strategy has yet to be fully tested in the market place.

GENERAL ELECTRIC: Sales for year ended March, 1980,



GESTETNER: Sales for year ended October, 1979, £268m; pre-tax profits £19.1m. Major manufacturer of stencil dupilcators. Has recently moved into copier market following launch last year of plain paper copier; 90 per cent of sales arise outside the UK, work of distributors. But late move into copiers and strength of sterling has put earnings under pressure.

group, which turned over £219m in 1979. The group's specialisations include the

imulation. The computer group's thrust in the office is ased on viewdata and its ability to manufacture view



ended March, 1980, £751m; croup with around half of ales in telecommunications siems from main frame tele

interests in office data and control systems; stake in ICL computer group sold at the



The fully-automated Gestetner 1566 duplicator is combined with a high-speed facsimile scanner to complete a self-contained FAXIL system. Such systems, says Gesteiner, have given on entirelly new sophistication to the stencil process Five years ago, 80 per cent of Gestetner's revenue came from stencil products, but by next year 50 per cent of its turnover will come from other products and processes.

## £3bn: pre-tax profits £415m. Largest electrical group in UK and number eight in the world rankings. terms, electronics, automation REDIFON systems and telecommunica-tions is the biggest single operating division. Well over £100m was spent on acquisi-tions last year but balance sheet still contains cash



chair range (above), aimed to combine strength with an outstanding degree of comfort and versatility. The chairs have been designed so as to give the maximum freedom of movement. The shape and adjustability of the back means that fatigue is reduced because the spine can be firmly supported while sitting in almost any position

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# Government moves to regain lost ground

## FRANCE

GUY DE JONQUIERES

Claude Pelissolo, a senior offi-cial of the French Industry offered this bleak Ministry. assessment of France's office industry: sufficies to say that its production is about FFr 200m for a attaining There is nothing nore to add. The French industry has been wiped out."

Despite this parlous state of affairs, the French Government still hopes to revive office equipment manufacturing. It believes that the increasing importance of computer technology and communications in the office can provide French industry with a promising opportunity to make up lost

The Government plans to tackle the problem in two main ways. First, by creating the environment and infrastructure in which business-users will find it worthwhile to take advantage of the most advanced office products and systems on the market; and secondly, by actively supporting the efforts of French manufacturers to supply these products.

A top priority, carrying the seal of approval of President Giscard d'Estaing himself, is the urgent modernisation and expansion of France's telecommunications network, until recently one of the most aged and inefficient in Europe. The French PTT (telecommunications administration) has been authorised to spend the equivalent of about \$6bn annually. It has already doubled the number of subscriber lines installed to 15m in the past five years and plans to double this num-

her again by 1992. As a relatively late starter. France enjoys one advantage which will stand it in good stead over the long term; it is able to instal the very latest equipment available. When its nodernisation programme is complete, it aims to have more digital exchange lines in service than any other European country, providing a system that will be ideal for carrying computerised data, as well as voice communications.

About two years ago it in-

tions network, called Transpac, employing a technique called packet switching, which allows large volumes of data to be transmitted at relatively low cost. It also proposes to launch a satellite in 1983 relay sophisticated business communications between offices in different parts of the coun-

It is pushing shead with the development of facsimile transmission services, a form of "electronic mail" which enables documents to be sent across telephone lines. It is also operating a national "video-conferencing" system, "video-conferencing" system, which makes it possible for businessmen in distant centres to see as well as talk to each

## **Pioneering**

France's vision of the future does not stop at the business oustomer. It is also pioneering the development of low-cost computer terminals for home use. As well as developing a viewdata service similar to the British Post Office's Prestel system, the PTT is working on plans to create an electronic telephone directory: the sam is to replace printed directories by supplying every telephone subscriber with a simple terminal, free of charge which can retrieve numbers stored in a central computer.

To help French office equipment manufacturers prepare themselves to satisfy the vast demand that this emerging new market is expected to unleash, the Government takes a close band in shaping their industrial and commercial strategies.

The PTT, the Industry Ministry and other state agencies have considerable resources at their disposal to support the development of new products. One criterion (based partly on the Japanese example) is that manufacturers should aim to produce equipment that is suitble for export as well as for the home market.

Under the watchful eye the French authorities, the industry has undergone a substantial amount of re-organisation in recent months. One of its results is the emergence of CIT-Alcatel, the telecommunications equipment subsidiary of the big Compagnie Générale d'Electricité, as a leading force in the French office equipment industry.

The company already has an impressive record in the development and marketing of

telephone switching equipment and claims to have installed about 60 per cent of the world's digital exchange lines. It now intends to use its experience as the basis for its expansion into office products, which will be handled by a newly-created division within the company, trading under the Alcatel

Its first major diversification step was the acquisition, two years ago, of Friden, the se biggest U.S. mailing equipment manufacturer. It has acquired the European marketing rights for word processors made by AES-Wordplex of Canada, with which it plans to collaborate in developing future products, and it is developing its own facsimile machines.

CIT-Alcatel recognised early on that to succeed on world international marketing network. It also realised that to build up one itself from scratch would be a lengthy and extremely expensive business.

Roneo Vickers of Britain. While many of Roneo's products were becoming somewhat outdated were based on decidedly low technology, they came with a sales and distribution organisation employing about 1,000 people in 10 countries, includ-ing the U.S., Canada, Belgium, the Netherlands, Australia and South Africa. One of CIT-Alcatel's main

domestic rivals, Thomson CSF, part of the giant Thomson electronics and electrical group, is also eyeing the office market with interest. But, at present, it claims to be interested more in supplying communications equipment for sophisticated information systems advanced technology products than in offering a complete range of office products. Thomson is seeking, with

minicomputers produced by its agreed to co-operate with Xerox of the U.S. on the development of videodisc comfield 01 peripherals.

emerged on the French scene in some of CII's own models.

the big industrial group hitherto best known for its manufacture of glass an pipes. Though only peripherally involved itself in electronics products, it has made two major moves to expand its interests

With the tacit approval of

the French Government, St Gobain has acquired the controlling interest in CII-Honey well Bull, France's main computer company, in which Honey well of the U.S. has a 47 per cent share. At about the same time, St. Gobain also purchase a 23.3 per cent stake in Olivetti the big Italian business machine The ultimate objectives of St. Gobain's strategy, and how it will set about managing its new interests, remain unclear. But few believe that it intends markets, it would need a strong to remain a sleeping partner, and considerable speculation

surrounds its next moves. CII has long been handicapped by having two different families of computers in its These calculations led it to range, a legacy of the success acquire earlier this year the sive mergers out of which it business machines activities of was formed. This split model range is a disadvantage because it makes it difficult for customers who start with a small machine to graduate smoothly to bigger computers as their needs grow.

## Subsidies

It also helps to explain why CII's share of the French computer market, about 27 per cent is barely half of that enjoyed International Business Machines, despite Government subsidies totalling FFr 1.2bn over the past five years and a preferential procurement policy which has worked in its favour.

nationalistic critics accuse it of relying far too heavily on products developed or manufactured by Honeywell in the U.S. It remains to be seen how this mixed success so far, to build reliance on American techup an international market for nology will be reconciled with Government's the French SEMS subsidiary. It has also avowed intention to build up a strong and independent electronics industry.

It is also uncertain how CIT's puter memories, which would product range will mesh in with enable vast quantities of data to that of Olivetti. The question be stored at low cost. Other has become particularly perlink-ups between the two com- tinent since the Italian companles may follow, possibly in pany agreed, earlier this year, computer to market in Europe computers made by Hitachi of Japan, Earlier this year, a new force which appear to compete with

هكذامن المتحل

# Cutting down on repetitive work

WORD PROCESSING

GEOFFREY CHARLISH

TEXT WAS being stored more than 50 years ago when it was realised that depressed typewriter keys could be made to punch holes in "pianola" cards or paper tape. Such records from different sources were joined up, selectively, and to make a zew document.

"Word processing" is, therefore, not so new. However. the expression itself was unknown until LBM coined it in 1965. with electric typewriter-based systems. In Britain there were few stirrings until the early 1970s and, since then, machines have moved on from paper to magnetic tape; cards and discs. From about 1975, visual display units began to appear.

There are now some 40 suppliers of "dedicated" word processors (that is, those with no other function) in the UK, with many more offerings of microcomputers that can be suitably programmed. Recently however, the dedicated system makers have tended to bestow other abilities on their unitsbusiness computing, for example general convergence of office electronics.

## Mechanism

Systems can be self-contained ("stand alone," in the jargon) or can consist of several keyhoard/displays sharing one big store ("shared logic"). The orkstations can have upright "real-paper" format or TV-shaped screens, single line electronic displays ("thin window"), or no display at all

-just a typing mechanism. More than half the installed base of dedicated machines have no screen, but the proportion is now dropping.

It is this wide choice, coupled with the fact that word pro-cessing is still something of a mystery in many British offices. that calls for a little clarification. Although the bigger companies employ in-house pro-fessionals to make decisions, there is no doubt that thousands smaller concerns are still wondering what to do.

What point is there in storing typed material at all? Quite often, the answer is "none."

At the other extreme, where, for example, individually typed sales letters are thought to be desirable, word processing assumes the dimensions of a small printing department. The letters are perhaps 90 per cent identical, with 10 per cent of variability (names, addresses and possibly other personal data) scattered throughout the

The first step therefore is to try to establish the amount of variability in the typed output, determine what cost gain would result from the increased productivity provided by various types of machine and weigh this against the capital expenditure

What can word processing do? In essence, it electronically stores all the characters in the text as the typist works, in such a way that words, sentences or paragraphs can afterwards be changed or moved to suit the various recipients of what is. basically, the same letter. Thus. the typist does not have to type out the bulk of the text over and over again: the machine will insert the recipient-dedicated passages in the right places, closing up or opening out the text auto-

enveloping and posting. and send the various versions to the recipients straight out of the electronic memory over a telephone line, in-house, nationally or internationally.

The vogue words are "electronic mail." In the heat of new technology one tends to forget. however, that telex can already do this: a number of makers are offering word processing ter-minals linked to a telex port with appropriate queuing, routing and priority facilities (the so-called "store and forward" systems).

## Integration

The ultimate solution—the nuch heralded "electronic heralded "electronic"—would integrate the digital signals from the word processor with those derived from other information systems (video, facsimile, external data bases and so on), and allow the that allow it to be done in-house.

the choice? To begin with, those with an existing mainframe computer should at least examine the prospects of additional software / storage for word

If no machine exists, thought should then be given either to acquiring a small one—if other computing tasks exist—or going to a dedicated system. The predominant thinking at the moment seems to be that word processing is an independent office function and likely to remain so until integrated office equipment become commouplace.

## Modular

Whether the dedicated system is to be stand-alone or shared logic is a matter of work-load; if, at the start, the load is high, several VDU/ keyboard terminals, working to one processor, might be the answer, particularly if some or all of the users need access to the same documents. But modular stand-alone systems that can be "grown" with the work-load are available. Perhaps the most important

A logical development—in its criterion is the amount of nascent stages at the moment— is to dispense with the next Large numbers of lengthy documents imply a big memory. There is a wide choice in

stand-alone capacity, from up to 1,000 characters on electronic typewriters (the "bottom end" of word processing) to hard disc which is both capacious (many millions of characters) and fast. In between is the so-called "floppy" (flexible) disc which nowadays very often plugs in to vertical slots next to the screen: they hold about 0.25m characters each. There are also magnetic cards—IBM's forte—holding up to about 10,000 characters.

Dual discs are a worthwhile investment, since text can be moved between them for added convenience and working flexibility.

Is a display necessary? The extent of editing is the key here: the more there is the harder it becomes without one. The most realistic are those makers. The figures may not, that look like an A4 sheet of course, reflect current rela-

For example, in the chairman's intercommunication of all of paper, having black-on-white tive sales positions or managing director's office them, regardless of location. But characters. Some "bottom-end" Useful publication machines have a one-line where letters and reports it is early days yet: the concept machines have a one-line seldom repeat themselves, a calls for a fast digital public display on which the last typed good electric or perhaps elec-tronic typewriter will suffice. communications network. There (or some other) line of text are some equipment offerings can be seen for immediate correction and minor editing What criteria then, determine tasks.

The "top-end" machines can he very versatile on the screen. The text can be scrolled up and down (like the movie film credits) and sometimes side-ways, as well. Right-hand margins can be justified (all the words ending on a vertical line. like this printed column); headings automatically centred, selected words displayed in bold, lines numbered for reference.

Generally, a cursor (a short line under each character) is moved to various text change points. The new material is then typed and the processor accommodates the new text, re-justifies and so on. Automatic column forming of figures or text is common.

Often, machines can print text while other passages are being edited on the screen. Some will look for a specific word or passage throughout a text and substitute new material. Some even have computer-like facilities — for example, they will search an address list for, say, Surrey addresses only.

Since prices can range from £1,000 or so to £100,000, clearly the application must be fully defined first.

## Hottest

Word processing is now big business and even the oil companies have been attracted into it-Exxon's Vydec, for example. For dedicated and micro-based systems, the market is worth perhaps £150m to £200m in Britain alone. According to Pedder Associates, the research company, IBM has 30 per cent of the installed base, due to a lengthy presence. The hottest contention is for the VDU-based stand-alone system — it will almost certainly prevail over the

In this league table, AES-Wordplex comes out on top with 21 per cent of installations so far, followed by Data Recall (14 per cent), Vydec (12 per cent).
Philips, IBM and DEC. About
a third of the installed base is shared by the 35 or so other makers. The figures may not,

Useful publications include: Word Processors in the UK.

Computer Installation Series (1979-80), Pedder Associates, London (01 633 0866); The International Word Processing Report (annually), Geyer-McAllister International, Richmond, Surrey (01 948 1814), and the monthly magazine, "What to Buy for Business," London (01 584 1272).

The Olivetti TES-101 desktop word processing system (right); an example of how the transition from electronic typeloriter to word processing can be made without radical change, either in personnel or in basic physical appearance of equipment. British Olivetti claims to head the unit sales league, with 15 per cent of the UK market for stand-alone, single-line, part-page word



## Other major European participants in the business equipment market

## SIEMENS

SIEMENS: Sales for years ended September, 1979, DM 28bn, net profits, DM 688m. Fourth largest electrical group in the world and number two (behind Philips) in Europe. Half of sales arise outside Germany, and of the total around a third stems from telecommunications and data processing. Last published balance sheet contained cash of DM 11bn, roughly equal to the stock market value of



MATRA: Sales for 1979. FFrs 4bn, net profits FFrs 200m. Major defence and aerospace group which has recently diversified into telecommunications, data pro-cessing and the watch business. Some three-quarters of sales arise outside France, and more than half now stems from non-defence operations. One of the fastest rising shares on the Paris bourse in

## olivetti

OLIVETTI: Sales in 1979 were L1,852bn. Big electronics and office equipment group which has recently shown recovery from several poor years; 23.3 per cent of its stock is owned by the

French group, Saint Gobain-One of the world's major vendors of small computer systems, its office strategy is unclear, although it has begun to market large Japanese computers and has bought the U.S. automatic

## MI III SAINT-GOBAIN-PONT -A-MOUSSON

bank teller company, Docutel.

SAINT - GOBAIN - PONT - à-MOUSSON: 1979 revenues: FFrs 35.5bn. Big French glass and piping group which has recently diversified into electronic technology. Owns 51 per cent of Cie des Machines Bull, which controls CII-Honeywell Bull, France's biggest computer manufac-turer. Honeywell of the U.S. owns 47 per cent. Saint-Gobain also acquired 23.3 per cent of Olivetti of Italy earlier this year and is majority National Semiconductor of U.S. in French chip-making



PHILIPS: 1979 worldwide revenues: Fl 33.2bn. Farflung Dutch-based group with oper-ations in more than 60 countries. Products include tele-communications equipment, industrial supplies, business machines, consumer elec-tronics, domestic appliances,

lighting, batteries and pharmaceuticals. Europe's biggest semi-conductor manufacturer. Owns Mullard and Pye in Britain. Recently set up Phillps Business Systems in UK to market a wide range of office products including minicomputers, word processors. dictating equipment, terminals and private exchanges. In the U.S. its affiliate, North American Philips, owned by Philips shareholders, has been expanding its consumer elec-

# tronics operations recently.

## Cii Honeywell Buil

Cii HONEYWELL BULL: Sales for 1979 FFrs 5bn. Largest computer manufacturer in France, supported until recently by heavy gov-ernment aid. Parentage includes U.S. computer group, Honeywell, as well as major French interests, including Saint - Gobain - Pont - a - Mousson. Component shortages left 1980, first half, in red, but recent predictions from Cli suggest that a profit can be returned for 1980 as a



CIT ALCATEL: 1979 revenues: FFrs 3.8bn. Part of French Compagnie Générale d'Elec-

tricité. Impressive record in telecommunications equipment. Claims to have installed more than 60 per cent of world's digital exchange lines. Now moving aggressively into office products under Alcatel brand name. Owns Friden, second largest U.S. mailing equipment company and acquired earlier this year business machines activities of Roneo of Britain.

## TRIUMPHADLER

TRIUMPH-ADLER: Sales for 1979, DM 1.2bn: net profits at parent company level. DM 10m. Broadly based office equipment group, owned by the Volkswagen motor group. Recent years have seen diversification away from typewriters to an increasingly ambitious range of electronics and data processing products. Has the backing of VW's powerful financial muscle.

## NIXDORF COMPUTER

NIXDORF: Sales for 1979, DM 1.25bn: net income DM 85m. Germany's leading producer of small business computers, with a 30 per cent share of the local market. Founded, and still controlled, by the Nixdorf family, but could become a public

company some time in 1982 Deutsche Bank took a 25 per cent shareholding, and pumped in DM 200m in eash, in 1978.

# 

# The Bitsy Word Processor.

How to reduce the mountain on the right to the molehill above is a major problem faced by many companies today. The name of that problem is summed up in two very important words:

productivity and efficiency.
That is why, Adler and Imperial, each with long experience and an envied reputation for down to earth practical solutions, have combined resources to introduce the Bitsy

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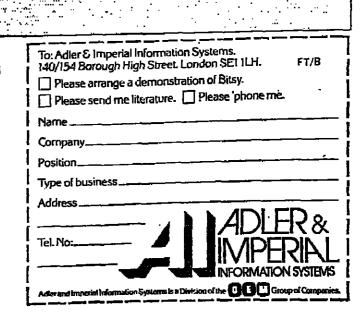
system that has been carefully thought out, in every detail.

In terms of flexibility the Bitsy system is designed to cater for the communication and information needs of small companies, large companies, even specialist departments within the company. And, unlike many systems, Bitsy can be easily up-graded to accommodate growth or increased work load even to the extent of a 'clustered' system that allows many work stations to be plumbed into one central memory.

As far as versatility is concerned, there is no

equivalently priced system that can offer so much. The Bitsy can do everything you would expect from far more expensive systems in terms of producing, recording, filing, retrieving and editing documents, letters, personnel, customer and sales records etc., etc. Additionally from our detailed knowledge of office routines we've built in many practical and time-saving functions. like the combined text and mathematical capability.

One area every secretary and typist will appreciate, is that the Bitsy system is built very much with her in mind. Here we've really put our years of experience to work. It shows in a host of refinements not the least of which is a system of control instructions that is so clear our competitors wish they'd thought of it.







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# Enter the miraculous microchip

## SMALLER COMPUTERS

**GUY DE JONQUIERES** 

ABOUT two years ago, a team International Machine engineers set themselves a remarkable challenge. They undertook to reproduce the central processor - the "brain" — of one of the com-pany's most popular big com-puters, the System 370, on a single microchip.

The processor consists of more than 45,000 components, a cluster of printed circuit boards and several miles of wiring. It is bulky enough to be housed in a cabinet of its own. Yet the IBM team managed to transfer all its complex circuitry onto a sliver of silicon measuring only 7 mm square, roughly one tenth the size of a British postage stamp. IBM does not propose, for the moment at least, to put System 270 processors on silicon, commercially. But its success in building in the laboratory what may be the most densely packed integrated circuit in the world. illustrates vividly how far the technique of miniaturising electronics has come.

## Performance

Advances in semiconductor echnology and the accompanying fall in the price of com-ponents have had their most visible impact so far in the market for smaller computers. Indeed, the products competing in that fast-growing market are developing so quickly that it is becoming increasingly hard to say, with any precision, what a small computer is or to describe the limits to its performance.

Only a decade or so ago, the definition was fairly straightforward. Small computers were invariably "minicomputers."
less powerful and cheaper versions of big "mainframe" computers. Unlike mainframes, which were intended to be general-purpose machines rapable of a wide variety of functions, early minis were de-signed to specialise in particular tasks, notably scientific and technical calculations and industrial process control.

But today, minis are to be found in a wide range of appli-Moreover, machines from traditional American minicomputer com-panies, such as Digital. Data General and Hewlett-Packard. performance

such as IBM. Burroughs, or Sperry Univac. Digital's topof-the-line VAX is as powerful as IBM's new 4300 series small

The mini-makers' upwards thrust is partly in reaction to the growing challenge which their cheaper products are facing from micro-computers. whose heart is a collection of inexpensive standard "chips" mounted on a printed circuit board. The micros have largely taken over the role which minicomputers played a few years ago of bringing data-processing a much wider circle of users.

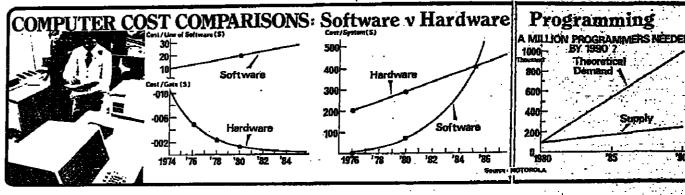
Companies such as Commodore. Apple and Tandy in the U.S., as well as a growing band Japanese manufacturers like Matsushita and Sharp, have found a ready market for desktop machines which offer as much performance as a minicomputer costing ten times as much only a decade ago. Microcomputers also are used as the basis for many smaller wordprocessors sold today.

In their most basic form, micro-computers, equipped with a display screen and keyboard, can be bought for as little as 1500. But an owner who wants his machine to be more than just a plaything will probably want to invest another £2,000 or so in a high quality printer, a disc storage unit for back-up memory and a library of preprogrammes

A system like this should be able to carry out a number of common business functions such as payrolls, accounting or stock cal and scientific calculations. Increasingly, micro-computers which started out as status symbols or toys for the personal use of rich enthusiasts are being installed for business and professional applications. International Data Corpora-

tion of Waltham, Massachusetts. in the U.S., believes that the market for micro-computers is only now beginning to hit its stride. It forecasts that the number of machines in use worldwide will soar to more than 5m by 1984, ten times the number installed at the end of last year. It estimates that about 60 per cent of the total will be in use in the U.S. But IDC also foresees a shaketinuing decline in the cost of electronic technology is failing

out taking place among suppliers of micro-computers within the next three years. It the long-term survivors will be those companies with a broad product range which can offer medium-sized computers made a line of compatible computers by mainframe manufacturers stretching from desk top micros





up to powerful systems costing ments, Motorola and Intel, have £250,000 or more. all announced that they are

can offer micros as part of a ful as a small mainframe by broader range of office products mounting a selection of microand who can therefore spread processor and memory chips on

their overheads are likely to be a printed circuit board.

IDC points out that the con-

offset suppliers' rising over-

accentuates the problem, be-

cause a supplier's marketing costs absorb an increasingly

large proportion of the re-venues from each unit sold. Therefore, those suppliers who

the best-placed in the long run

The third key to survival is

software. Though the number of programmes that can be pur-

chased off the shelf for micro-

computers is constantly expand-

ing, they are of variable quality.

Moreover, most programmes are for fairly general tasks. The

user who wants to adapt his microcomputer to a specialised application must often either

write his own programme (a laborious affair, requiring a good deal of skill), or employ

prices

Indeed, the fall in of micro-computers.

all announced that they are working on plans to build in

to their chips during manu-facture the nucleus of basic

operating software required to

This "packaged software

easier to write the applications

programmes needed for specific

tasks. It would also bring a

step closer the possibility of creating a computer as power-

The manufacturers say that

if they succeed, they will go a long way to solving the short-

age of skilled programmers that

is forecast for the years ahead.

They also are likely to bring

about the most profound upheaval yet in the rapidly

changing pattern of the computer market and of industry which supplies it.



it is claimed, brings a new dimension to office management. For less than £50 per week, the system can handle all the invoicing, sales analysis, ledgers, stock reporting, payroll and VAT functions of a normal business. The makers add that the LX2500 " is so simple to use that no special experience is

Right: the new ITT 3451 intelligent terminal from ITT Business Systems is IBM 3740-compatible and can be programmed in business BASIC. In the picture, an operator is inserting a diskette, prior to data-entry. The high-performance diskette drive used by the ITT 3451 speeds up the search, cover and insert functions reducing operator values line. copy and insert functions, reducing operator waiting time, and allowing greater data throughput

## MARKET FORECAST FOR INFORMATION PROCESSING SERVICES

Office Itomation system	1978 market \$m	1979 market estimate 8m	1984 market potential \$m	979-1984 average annual growth rate
ectronic mail*	20	26	105	32
formation retrieval	2	4	45	63
ata base services	1	2	28	68
m. services	2		50	72
her**	Negligible	2	54	94
Total	25	37	282	50

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# CPT speaks your language in over 35 countries

■ The CPT 8000 is truly a multilingual word processor, functioning in over 15 different languages. Every CPT 8000 - whether it is sold in Boston, Brussels, or Buenos Aires-speaks these languages.

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\*Telex or relighone CPT for name of nearest office.

## an outside programmer (which can be expensive). Experience

For these reasons, the better-established office equipment componies are not too worried by the onslaught of the bargainbasement micros. Manufac-turers such as Wang in the U.S., Olivetti of Italy, Triumph-Adler of Germany or the Dutch-owned Philips group bave both extensive marketing networks and considerable experience of their customers' needs.

Most of the old-established office products manufacturers were making equipment like accounting machines. writers or calculators long before the computer boom began in the 1960s. The successful ones have adapted existing pro-ducts and systems to take ad-vantage of developments in echnology. Many of the manufacturers of cheaper, mass-market micros, by contrast, entered the market through the technology and are now trying to acquire the experience of customer requirements that will enable them to offer the right types of software.

Ironically, while the low cost of micros has brought them within reach of an ever larger number of users, they are more difficult to programme than large computers. This is partly because their limited memory capacity does not allow enough space to store the information required for simplified programming languages.

Some progress has been made ın developing easier programming techniques for micro computers. A language "pack-age" called VisiCalc has been developed to help users without any data-processing expertise and CAP-CPP, a leading British software house, has designed a version of the commonly-used programming language, COBOL, specially for use with

But the most vigorous and radical attack on the problem is being mounted by U.S. manufacturers of the mass-produced integrated circuits used in micro-computers. Three of the leading firms, Texas Instru-

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هكذامن المثمل

## Some of the major participants in the business equipment market in N. America

INTERNATIONAL NESS MACHINES: worldwide revenues: \$22.8bn. World's biggest computer manufacturer, accounting for more than half all larger computers installed by value. Offers comprehensive office product range spanning typewriters, word processors, copiers, PABXs, dictating machines, printers and terminals. Despite little past experience in telecommunications, IBM is likely to be a major force on U.S. business communications market in future. Major partner in pro-ject to provide sophisticated business communications by satellite.

IBM's profits last year suffered from switch by many customers to computer leasing from outright purchase. This, plus heavy investment in new products designed to fend off increasingly voracious U.S. and Japanese competitors, has caused it to borrow heavily.

## **E**XON

up by the U.S. oil giant, Exxon (1979 revenues: \$84.8bn) to develop new operations in office products. Has invested \$200m mainly in small companies making typewriters, word processors, facsimile equipment, data transmision and networking devices, talking computers and semiconductors. Hany products are innovative, though it is not yet clear how Exxon will knif the yarious activities together into a cohesive strategy—but few doubt that it has the necessary financial resources.



NORTHERN TELECOM: Sales for 1979, C\$1.9bn; net income, C\$97.1m. The largest telecommunications group in Canada and number two in North America, after A.T.

Northern Telecom is owned 55 per cent by Bell Canada.

Entered office electronics business as recently as 1978 through a number of computer acquisitions.

## WANG

LABORATORIES: Sales for year ended June, \$543m: net income Leading producer of small computers and word ing systems, founded in 1951. Lost money in Europe last year despite a contribution to sales now approaching 25 per cent. Otherwise, successful company in a market dominated by major

## XEROX: 1979 revenues:

\$7bn; American copier giant, major shareholder in Rank-Xerox. Its dominance of the world copier market has been increasingly challenged by Japanese companies, though it is fighting back vigorously with new products and inmarketing effort. Xerox has diversified its activities in recent years to prepare for broad attack on the office systems market. Acquisitions include Western Union International and computer peripherals manufac-turers in the U.S. Involved with Inel and Digital Equip-ment in Seveloping Ethernet office communications network and collaborating with Thomson of France on videodises for data storage

## Burroughs

BURROUGHS: Sales for 1979, \$2.8bn: net income, \$306m. A leading U.S. producer of data processing equipment and computer systems: substantial interests in business forms.

Computer systems account for 62 per cent of Burroughs' sales with two-thirds of this in large and medium-sized products. Sales outside the U.S. contribute 45 per cent of sales and 33 per cent of

DATAPOINT DATAPOINT: Sales in 1979

originators of the idea of distributed processing (which it calls dispersed processing), Datapoint has a sound reputation for reliable minicom-The company is puters. basing its integrated office on its attached resource computer (ARC). Distributed in by Ventek of UK Wembley.

INTERNATIONAL TELE-PHONE AND TELEGRAPH: worldwide revenues: \$22bn. Diversified American multinational company with activities in telecommunications, electronics, engineering, consumer products and services, natural resources and insurance and finance. Management responsibility for different divisions of the group, which does business in more than 80 countries, has been decentralised in recent with increasing J'CRIS emphasis on non-consumer

products. As a major supplier of telephone switching equipment it is developing an advanced digital exchange, System 12. while its UK subsidiary, Standard Telephone Cables, is involved in Post Recently warned

that it might sell French tele-coms subsidiary if France did not order System 12, which it als ohopes to sell to AT and T in U.S. Business equipment includes PABXs, printers, telex machines and computer peripherals.



TELEPHONE AMERICAN AND TELEGRAPH: Sales for 1979 \$45.4bn; net income \$5.7bn. Largest telephone group in the world. Parent company for the Bell System which operates through 21 subsidiaries and controls nearly four out of every five telephones in the U.S. Faces sterner competition from now on following recent move to deregulate the U.S. telephone

## Honeywell

HONEYWELL: Sales for 1979, \$4.2bn; net income \$240m. Aerospace and missile group with industrial and environmental protection interests. A wide range of information systems account for roughly a third of both sales and earnings following in recent years.



IBM's Office System 6 is a range of machines combining a risual display, ink jet printing, magnetic cards and diskettes as input and output media, with sophisticated communications capabilities. The IBM 6/450 (shown here) has all the system components; it can be used to keyboard, process and print text or records

# Special capabilities still fill a need

## **MAINFRAMES**

ALAN CANE

HISTORY, in the data processing business, repeats itself. The same questions come up again and again. Over the past few vears, controversy has centred on the role of the mainframe computer in data processing. Has it a future Is it simply a dinosaur to be eliminated in the evolution of computing by the fleet, cheap little minicomputers? Or is it the mainstay of the operation, around which all the rest of the computer busi-

Now the same sequence of questions is being asked about the mainframe in the evolution of the electronic office.

The idea of the "electronic office," the "office of the future" the "paperless office," call it what you will (the very latest jargon seems to be the "integrated, electronic office," or IEO), was possible from the very early days of computing-

but the price was prohibitive.
As the cost of computing fell, in real terms, with the introduction of the microprocessor and its associated microcircuitry (controllers, memory and switches), so the theory became

And that, in turn, meant that it was the mini and micro computer manufacturers who made the running in the development of office automation.

Thus, it was companies such Wang, Four Phase Datapoint. Xerox and Intel which were crying their wares in the market place at the very start —and, indeed, it is these companies which are still making the running now.

Where then is the main-frame in all this activity? First of it is worth, in these perilous times when semiconentire very large IBM system silicon chip, to define a mainframe. Worthwhile, but prob-User's Year Book has given up differentiating between mainframes and minis and now simply lists central processors.

ing power available.

At present, office products tend to be a little primitive. There are word processors, message switching systems and data storage systems but none of these quite matches up to what is required of the truly electronic office. As Dr. Douglas Eyeions, director general of the Computing Services Association "There is justifiable disappointment among customers with the products available after all, it is very unlikely that any one piece of equipment will solve all a customer's problems."

But if the mini and microcomputer manufacturers are making the running, what response is there from the traditional mainframe manufacturers? Mr. Michael Edmiston, UK marketing manfacturers? ager for information systems for International Computers, sees a need to divide facilities for the office into four levels. Those used at corporate level. units, those used at the level of the office and those used at

For home use, there seems no better alternative than viewdata, at present.

runs on ICL's bigger computers. According to Mr. Edmiston, the Thorntel system is already under test at six pilot sites.

In the office he sees the use of ICL's word processor, the 7700, which operates as a stand-alone system—that is it can be operated separately from a mainframe computer - but which also involves the concept of shared logic. That means that several separate word process-ing stations can operate from same central processing

Mr. Edmiston foresees a situa-

tion where each administrative unit would have access to an ductor manufacturers delight ICL Me 29 (ICL's new and popular small mainframe) to act as a node for office comon a single quarter inch square munications, word and text processing and data processing. He points out that some firms ably impossible. The Computer are already installing Me 29s, not to act as data processors, but to handle files and other

turns on the amount of computing power necessary to handle of the role currently performed two second, the multifunction work purposes.

> There are, again, fairly advanced concepts in a world where very few businesses have ventional files. Its capacity anything like an effective cor- must, therefore, be very large porate database and where 'work stations" tend to word processors with perhaps the able technology exists at present. facility to receive viewdata

## Concepts

According to a study carried out by Professor George Coulouris of Queen Mary Col-lege, London University (and which incidentally led to the formation of Nexos, the National Enterprise Board office equip-ment subsidiary), the work station of the future will have very specific attributes. It will be, he argued, "an

electronic replacement for the office desk, the typewriter and the filing cabinet. Because the work station incorporates information processing power in the form of a personal computer system, it will be able to per-form automatically many of the data, at present.

ICL is already associated with tasks that involve manual tasks that involve m private viewdata system which ing the storage, processing manipulation or transformation of information."

Professor Coulouris' vision involves some concepts that are far removed from anything seen so-called office automation systems at present.

He sees, for example, the whole of the flat surface of the present executive's desk being replaced by a large television screen on which are projected images of all the papers which currently inhabit that space. Diaries, memoranda, working papers, perhaps stored one on top of another. In Professor Coulouris's elec-

for the executive to write on the papers on his screen, using, perhaps, a light pen, shuffle them around, file them for future use, or send them to other colleagues in the organisation. The archival store is another

tronic office it would be possible

significant part of his vision: What is probably not clear hold only current information, simply too great.

The best definition probably is the actual amount of process- the archive store takes on most of the most important by filing cabinet storage. It facets of the "electronic office," also provides a permanent first, the office database and record for legal and audit

It must ultimately have the capacity to hold all the information stored at present in con-- say 1,000m pages or 4,000,000m characters. No suit-

It requires a very powerful computer to handle this kind of processing task. Mr. Edmiston points out that the problem of handling images on the screen is 100 times more complex than simply sending characters down a communications line to a visual display terminal.

## Facets

It is not surprising that Nexos selected the Delta com-puter, made by the Delphi Corporation, as the heart of its office architecture. The Delta is one of the most powerful communications processors

Enterprise Board company, set up to cater for the electronic office as the cornerstone of its philosophy. It is exceedingly powerful — it can handle up to 240 million instructions a second, through a network of between eight and 32 processors. The amount of information it can control is in excess of 80m bits (binary digits or individual electronic events), a second.

The Delta, is, of course, not conventional mainframe. It is a very large and expensive electronic switchboard. Muir Moffat, managing director of Nexos, has pointed out to those who query the size and power of the Delta for a conventional office, that nobody would think twice about spending that kind of money on a new conventional telephone switch-board. The Delta will be able to recognise voice commands, integrate text and voice data banks and carry out message-switching, among a host of other intelligent" functions.

Just as in data processing, the mainframe may be a dinosaur but it will not die out. The need



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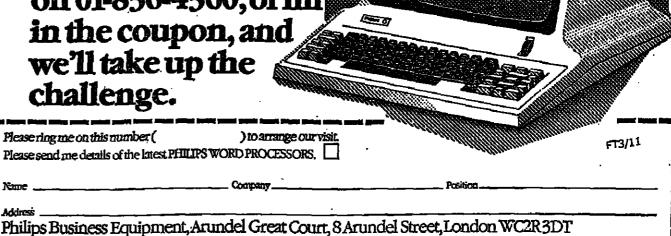
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# All set for a boom in the '80s

## DATA COMMUNICATIONS

GUY DE JONQUIERES

DATA COMMUNICATIONS, the technique of transmitting computerised information from one point to another, is set to boom during the 1980s. The expected rapid growth will mean an expansion of the information and communications services available to business and will bring step closer the realisation of the electronic office.

One way to measure the growth of data communications is by the number of computer terminals installed. According to the latest Eurodata survey commissioned by European telecommunications administrations PTTs), the number of terminals connected to public networks in Europe will in-crease almost sixfold between now and 1987 to 4m units from 625,000 units today.

In the U.S., there are already four times as many terminals in ise as in Europe, reflecting both the Americans' lead in computerisation and their relatively telecommunications tariffs. But in spite of starting from a considerably higher base, the U.S. is expected still to see a 20 per cent annual growth in the number of installed terminals over the next decade.

## Expansion

Behind this projected expansion lies the confluence of several powerful forces. Steady decreases in the cost of microterminals very cheaply. In France, the PTT believes that it will be possible to make terminals designed to search for telephone numbers stored in a central computerised directory for less than £60 each. It plans to distribute one free to every French telephone subscriber in place of printed directories.

The progressive fusion of computer and communications technology, which has led to the development of digital telephone switching and transmission. has simplified the technical task of carrying data and voice on the same networks. And recently, changes in regulatory policies have started to erode the political obstacles standing in the way of the commercial exploitation of the latest developments in tech-The most dramatic move

taken in this direction so far has been the decision by the U.S. Federal Communications Commission to open up to allhas hitherto been strictly regulated. Such services, which combine the processing and transmission of data, have until now been offered only on a fairly limited scale in the U.S. by computer bureaux like Tymnet and Graphnet.

The FCC's decision is expected to stimulate the rapid growth of many new types of service, such as electronic funds transfer and billing, electronic mail and integrated voice and data communications networks. Though these will initially be aimed mainly at business customers, they can be expected to spread swiftly to household and residential users

The potential scale of this new market may be judged by the number of American corporations preparing to enter it and the size of the resources which they plan to commit. American Telephone and Telegraph, which has a virtual monopoly of the U.S. telephone system but has been prohibited from offering "value added" services until now, is setting up a new company to exploit the business. Nicknamed "Baby Bell," it has been endowed with

a capitalisation of \$10bn. International Business
Machines, the world's biggest
computer manufacturer, has set its sights on the market too. As well as offering a comprehensive range of business equipment and terminals, it is a partner in Satellite Business Systems, which plans to provide highly sophisticated business communications services. Xerox is also limbering up for the fray and is working on a rival communications project called Xten.

In Europe, things are moving considerably more slowly. Though the British Government electronics components have is examining the possibility of made it possible to manufacture opening the national telecommunications network to private suppliers of "value added services," PTTs in most other countries appear determined to keep a firm grip on their mono-polies and resist any intrusion by the private sector. The recent case of I.P. Sharp,

a Toronto-based company which operates an extensive international computer bureau network, is symptomatic of the dog-in-the-manger attitude of which the PTTs are often accused. Sharp undertakes to process at central computers data fed in by its customers at remote terminals. In addition, it has also offered its 700 European customers a facility to send messages to each other electronically across its network. But under strong pressure from the PTTs, the Canadian company has been forced to end this extra service from the beginning of next year.

At present, the PTTs offer no comparable Europe-wide elec-tronic mail services themselves, though several are planning to introduce national networks over the next few years. They apparently feared that Sharp was depriving them of revenue by carrying on its leased circuits messages which would otherwise have been sent on public telecommunications networks via telex or telephone.

The PTTs' determination to

value added " services, which exclude private competition which threatens their monopolies is not too surprising in view of the sums of money involved. Data communications is still only 5 per cent of their business but earns them about \$2bn a year. They expect this sum to rise to about \$8bn annually by 1987. Moreover. most of the traffic will be carried on their already profit-

able long-distance lines. At present, most data communications traffic is transmitted either on private circuits leased permanently from the PTTs by private users or, where a customer's needs are less extensive, on the public switched telephone network But increasingly, European Treaty) have pressed ahead PTTs are introducing new networks to handle data communications using a technique called packet switching.

## Packet system

Data are divided "packets," each containing typically 128 binary units (bits), including the coded address of the final destination. A computerised control system then works out the fastest route and dispatches the packets via a series of nodes, or connecting points in the network. Each packet containing part of a given message may travel a different route, but the system ensures that they are assembled in the correct order at their destination.

Provided the tariffs are set at reasonable level, packet switching offers advantages to both the PTTs and their customers. Because packets are stored momentarily at each node before being forwarded on the next leg of their journey, an open line is not required all an open line is not required all the U.S., the commercial com-the way between sender and munications services planned recipient. This means that more by IBM and Xerox will both traffic can be carried and that users can be charged on the Europe, France plans to launch basis of the volume of data sent, a telecommunications satellite not of the distance travelled.

carry voice as well as data, and transmission speeds can be a wide variety of services 48,000 bits per second.

Euronet-Diane, which provides data bases throughout the Community. The European Com- time.
mission had hoped that it For would provide the basis for a single Europe-wide network, büt national PTTs (whose with their own individual schemes regardless.

As a result, each of the national networks differs technically from the others. Some progress has been made in negotiating common inter-national standards designed 10 into allow data to flow networks, but how effective these will be in practice remains to be seen.

Perhaps the most exciting new development in business communications now in prospect is the advent of services using satellites. These will permit voice and data communications, together television transmission, to be relayed directly between distant points. One obvious new application is tele-conferencing, which will allow businessmen in different cities to see as well as talk to each other.

Texas Instruments, the big American semi-conductor manufacturer, has for some time been using a satellite system to link its different offices and plants scattered around the world. In involve satellite links. In in 1983, while British Telecom

Packet-switched networks can is studying a similar proposal. As well as being able to carry varied according to the type of satellites are also an easily service required. Transpac, the accessible medium. Communica-French PTT network which has tions can be transmitted and been operating since 1978, offers received between users via dish speeds of between 50 bits and aerials mounted on rooftops, without recourse to the fele-The EEC is also operating its phone network. Though these own packet-switched network, aerials are likely to be quite expensive at first, volume proaccess to scientific and technical duction should bring about a significant drop in cost over

> For PTTs. this poses an obvious problem, since it is considerably harder to enforce a monopoly over communications that are transmitted through the airwaves than over those that are carried on tele-phone lines. Moreover, satellites transmit over wide areas, so that their coverage cannot easily be restricted national boundaries.

## Intentions

It is not clear how far plans by PTT to launch telecommunications satellites are intended as a pre-emptive move in antici-pation of private sector competition, or whether they would have been put into effect anyway. According to Dr. Louis Pouzin of the French Institut de Recherche d'Informatique et d'Automatique: "New communication services introduced by PTTs are often simple counteractions, which were thought necessary to protect

But it does seem likely that the PTTs monopolies face ? tougher test\_than at any time in the past. The next few years will tell whether the regulating authorities will succeed in keeping control over the provision of new types of communication down their general introduction —or whether the sheer speed technological will vitiate the attempts by the a telecommunications satellite PTTs to impose national restric-



Up to 3,500 messages a day are handled by the ITT 6100 ADX message switching system, installed by the Essa Petroleum Company at its London headquarters to speed communication with Essa facilities in the UK and abroad. Messages can be rapidly edited or corrected on the screen and no dialling is required—the system takes over this greatest-of-atl teles operator

# Wider applications in the use of computers

## INTERNAL NETWORKS

JASON CRISP

FOR YEARS the much heraided electronic office of the future has remained doggedly almost exactly a decade away. But a significant change in the use of computers may indicate that, in large companies at least, the average vision of every manager having his or her own communicating terminal may actually be beginning to happen, albeit somewhat

increasingly using computers and be much more efficient? themselves and they note that once that happens managers tions are appearing from two too become much more sources; the computer and tele-interested in having access to communications industries. information which is or could be available,

## Efficiency

Most companies generate vast quantities of information in many different guises which swims around the organisation by a variety of means. A number of companies are awakening to the efficiencies and productivity which can be gained from both the managerial and professional staff if the information systems can be rationalised and co-

number of local communications ductor company.

networks. Word processing is, very slowly, beginning to establish a new series of networks, and of course, the most pervasive network is inevitably the telephone and

tions industries to try and bring together as many of these dis-parate and sometimes haphazard networks into fewer and more efficient ones. It is likely to be quite some time before the manager sees the benefit.
Why not put all companies

word machines, computer terminals, telex and so on, on to one net-The change is that the com- cient and much cheaper? And, puter is emerging from the so the thinking goes, why not closet of the data processing give each manager a terminal room, into the main stream of on which memos and letters can the office. According to the be sent and stored in elecmanufacturers, the professional tronic form as it would increase staff in organisations are the speed of communication

A number of possible solu-

A wide range of local net-works have been developed by the computer industry which work in a variety of ways. Although these are fine for a computer system they are limited because they generally only work with the proprietary manufacturer's equipment. A significant trend emerging, is for networks to be designed to link any manufacturers' equip-

The solutions to designing an internal electronic communications network come, broadly speaking, from two very different directions. One is the ring approach, of which the best To some degree or another known approach is Ethernet, any organisation will have one which has been developed by or more form of electronic com- Xerox, Digital Equipment, the munications network. Data minicomputer manufacturer, processing has resulted in a and Intel the major semi-conmanufacturer,

from and to all the terminals. printers, word processors and so on within the office flows past each machine but each one is There is much activity in both capable of recognising the elec-computer and telecommunication parcel of information which has been addressed to it and can pluck it off the wire.

## Benefits

The advantages of a system like Ethernet is that it is reasonably cheap and simple—it is largely a question of running the co-axial cable round a build-ing—and it is fast, but it is not

designed to carry voice.

There are nearly 50 different companies offering local data networks, almost all of which are more hierarchical than Ethernet's open ring. There is. however, a move for computer manufacturers to make networks much more flexible; IBM is modifying its centralised and hierarchical Systems Network

Architecture, for example.
The leading British answer which has been attracting considerable interest is the "Camwhich the National Enterprise Board has a stake.

The major rival solution comes from the telecommunications companies with digital private exchanges which can being called, says Mr. Ellis. route data as well as telephone calls. Information from terminal comes in to the exchange and is switched to the computer or be marketed as just an answer-

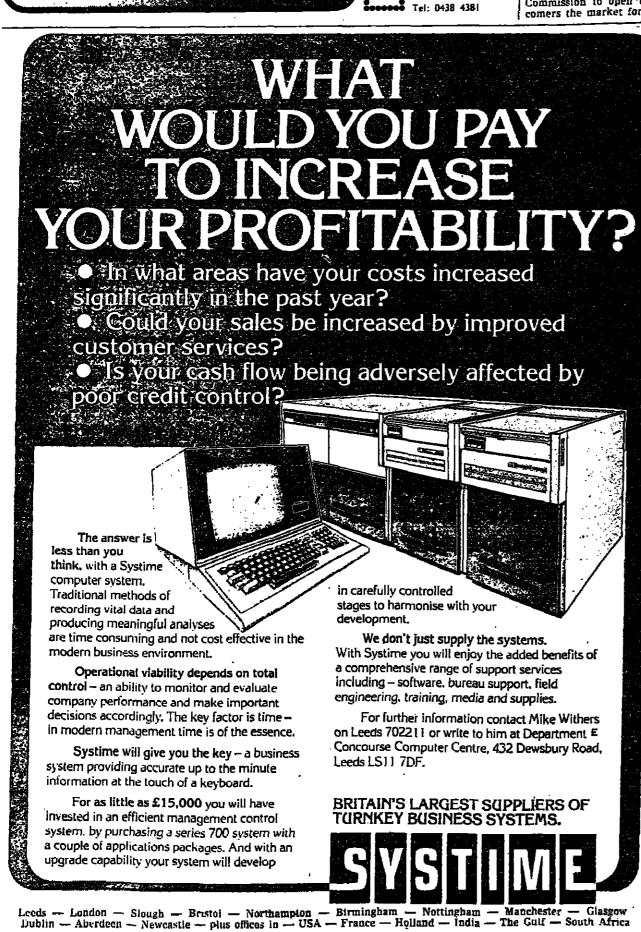
approva!).

speeds are much slower than on cable without any switching de-vice at all. All the information second is that they may not be powerful enough to handle a very large number of pieces of electronics equipment communi-

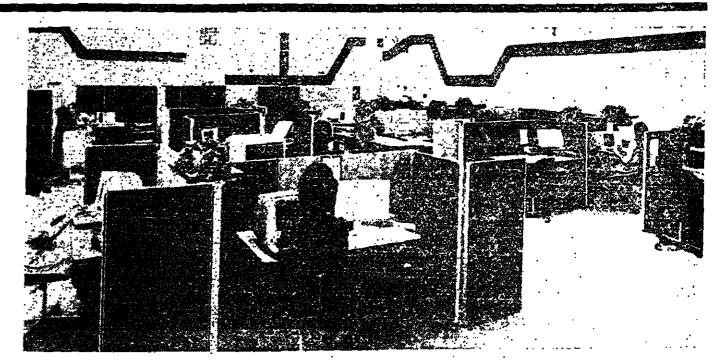
cating with each other. One very powerful communications system which can combine voice and data transmission is being developed by Delphi, a subsidiary of Exxon. The European manufacturing and marketing rights of Delphi's Delta are held by Nexos, the office equipment subsidiary of the National Enterprise Board. Delta's power is extraordinary. It can have up to 26 processors. each one equivalent to a largish IBM computer and capable of 71m instructions every second. As Mr. Chris Ellis, director of strategy at Nexos remarks in the idiom of the Rolls-Royce spokesman: "The power is

adequate. As a trial, the first Delta has been running for three years as a telephone answering service in Los Angeles, connected to nine large telephone exchanges. When a subscriber does not answer, the call is routed to one of the Delta operators who is bridge Ring" developed by the Computer Laboratory at Cambridge University and which is then instructed by the computer to be sold by Logica, the computer software company in Even though the operator may have heard of the computer to the computer software company in the National Enterprise never have heard of the company she is answering on behalf of, by working with Delta, she can be more effective than the secretary of the person

another terminal. In the UK, ing service within large comfor instance, Plessey and Telepanies or groups of smaller phone Rentals market a digital ones. However, Delta can be exchange made by Rolm, as does stepped up into a fully inte-IBM (the first to get Post Office grated electronics communicagrated electronics communications system which would link There are two problems in all telephones, computers, word conventional digital processors, facsimile machines, PABXs: one is that transmission data storage and so on.



The new Xerox 860. a flexible and sophisticated information processing system. The 860 system includes a number of aids to productivity in basic test processing as well as a range of optional software packages. Xerox also offer a word processing software package with the system



Wang's powerful word processing System 30 uses a 10 megabute hard disk for speedy performance and storage emperity for up to 4,000 pages of text. The system can accommodate up to 14 peripheral devices, such as workstations, printers, telecommunications or interfaces for OCR and photocomposition

# Consultants' key role in providing expert advice

## COMPUTER SERVICES

ALAN CANE

THE OFFICE is ripe for auto-uption. It could be likened to maritime catastrophe with, on poresenting the way that office psts continue to rise without tope of abatement; on the other and there is the bleeding man in the water, representing, netaphorically, the way in which new technology has slashed the costs of the equip-ment necessary for automation. Yet the wonder is that the expected massacre has failed to

As Mr. George Cox, managing director of Butler Cox, a consultancy established specially to deal with the advent of the electronic office put it: "The developments that we expected are simply not happening."

Mr. Cox sees a number of reasons for this apparent failure grapple with the problem of to exploit the costs benefits office automation. Its senior to exploit the costs benefits office automation. Its senior available through modern technology: "There is no simple suggest a tentative timescale

decision had to be taken to com- has his or her own view. puterise. With office automation, the decision-making process is much more diffuse. Companies are nibbling round the edges but few are biting."

Mr. Cox's view is backed up evidence from computer users. Chase Manhattan Bank in New York is one of the most imaginative and courageous users of advanced data processing equip-ment. It uses a complete mixture of equipment from large IBM mainframes to carry out the bulk of its processing, to Datapoint mintcomputer networks for robust data entry to Wang word processors. It was one of the first to experiment

with hand-written data entry using a system developed by the UK company Quest Automation and its foreign dealing room has tried a foreign exchange package of considerable com-plexity developed by the UK software house Logica. Yet it has hardly started to

mainframe and because of the hierarchy for the adoption of way data processing underlies systems which are fundamental all the administrative work of to everything the company does the company. A single, central —yet on which each manager

> Managers in Chase Manhattan do not have on-line terminals on their desk from which they can cull the latest management information or receive messages from other parts of the organisation. And it is unlikely they will have in the foreseeable future. As one senior executive said: "Who is going to make the decision in a huge organisation like this? Who is going to reconcile the needs and ideas of all our different groups?"

## Growth business

This goes some way to explaining the chief role that computer services companies can take in the development of electronic office: that of

systems consultant. '
The function of computer services companies is often misunderstood, but basically they will do your computing for you if you have no computer or they will make it easier for you to do your computing on your

## MARKET FOR OFFICE AUTOMATION SYSTEMS

Total hardware and services

Office automation system	1978 market \$m	1979 market estimate \$m	1984 market potential \$m	average annual growth rate
Word processors	865	1,177	6,030	39
Computer based message systems (public & private)	27	64	835	68
Facsimile	150	186	505	22
OCR services	5	15	157	60
Com. services	5	11	98	55
Total ·	1,052	1,453	7,625	39

a year, taking inflation luto account. The software business grew by 17 per cent a year over the same period and the bureaux business by only 5 per cent a year. According to Roger Graham, managing director of Data Processing and Training for the consultancy Business Intelligence Services: "The

ing grew by around 21 per cent the making of key decisions." a year, taking inflation into "How many of us had

installed interdepartmental data bases, or were talking of satellite communications, electronic mail or word processing a short three years ago?" said Mr. Graham.
"It was not and is not that consultants are cleverer than their clients, but simply that "The most important role of they have regular and repeated the services companies is to experience of tasks such as advise on the proper strategy.

on which are either new to an is to solve the problem by changing rapidly. There are

Speaking at a major data processing conference, Mr. Graham went on: "There will be scope accurate communication between and within organisations.

word representing simply the enhancement of already extant message switching facilities. Activity Andersen. Other CSA companies which specialise in cleaning office include companies with their own computers) will be in a special position to exploit this market, the more so if governments proceed to deregulate common carrier facilities and allow competition with the Post Office. The large corporations, banks and government will have their own networks but even they may well turn to outsiders to establish them and perhaps run them." Mr. Graham's views

by those of Dr. Eyeions, director mirrored Douglas general of the Computer Services Association. He says: way into the electronic office. for implementation of any office. It is a growth business, and sheer rate of change in the experience of tasks such as advise on the proper strategy. Enterprint way into the electronic office. It is a growth business, and sheer rate of change in the experience of tasks such as advise on the proper strategy. Enterprint way into the electronic office. It is a growth business, and sheer rate of change in the experience of tasks such as advise on the proper strategy. Enterprint way into the experience of tasks such as advise on the proper strategy. Enterprint way into the electronic office. It is a growth business, and sheer rate of change in the experience of tasks such as advise on the proper strategy. Enterprint way into the electronic office. It is a growth business, and sheer rate of change in the experience of tasks such as advise on the proper strategy. Enterprint way into the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. Accordance to the experience of tasks such as advise on the proper strategy. The transport of the experience of tasks such as advise on the proper strategy. The transport is the experience of tasks such as advise on the proper strategy. The transport is the experience of tasks such as advise on the proper strategy. The transport is the experience of tasks such as advise on the proper strategy. The transport is the experience of tasks such as advise on the proper strategy. The transport is the experience of tasks such

organisation. or done very thinking in terms of the system. occasionally in any one organisa- Is it a typing problem, for ments each year which are example, or something that can be solved using a system of information retrieval?"

The CSA, which represents for providing national and inter- the leading computing services national data network facilities companies in the UK, has a to give faster, cheaper, more specialist group examining office ord representatives from Logica.

"Electronic mail is a buzz Pactel. CSP, Langton Information Systems, Peate Marwick thancement of already extant Mitchell, P.E. Consultants and the electronic office include Hoskyns. F International and Data Logic.

## Big change

A major change these days is that services companies will provide hardware as well as services. Data Logic, for example, a subsidiary of the U.S. Raytheon Cossor group. mates its own specialised microprocessor-based terminals. And Logica, a specialist in word processing, provides the Logica VTS system a word processor marketed by the National Enterprise Board office automation company Nexos.

new products and new developslightly better and slightly cheaper than before. Customers feel a real need for a source of authoritative advice, which is not a massive multinational like 1BM or Xerox, but which is aware of the potential of the technology and can help them make a considered choice.

The choice is certainly bewildering. The list of makers of such a mundane device as the humble word processor fills several columns in the Computer Users Year Book, the bible of the computer industry.

And how is the naive user to choose, for example, between the bewildering variety of inoffice ring main systems on Ethernet from Xerox. Intel and Digital Equipment, Z Net from Zilog, ARC from Data point, the Cambridge ring, Demos from Scicon and the National Physical Laboratory, to mention only a few. As Dr. Eyeions says: "Even the work station you choose today will probably not be compatible with systems operating in a few years time."

Consultancies thrived on the users' need for advice on how best to do data processing: that According to Mr. Leonard experience looks likely to Taylor, managing director of repeated with the advent of Logica: "The technology is integrated electronic office. experience looks likely to be repeated with the advent of the

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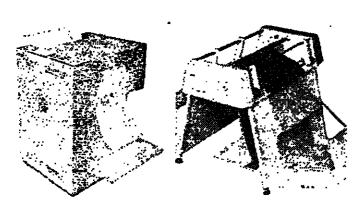
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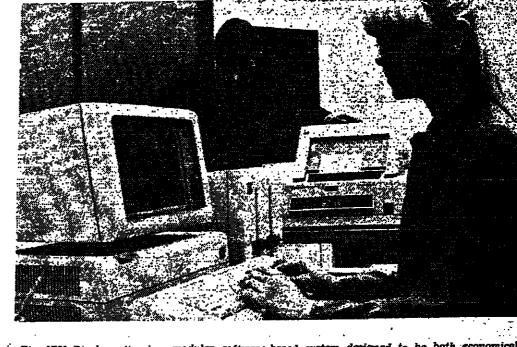
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FINANCIAL TIMES EUROPE'S BUSINESS NEWSPAPER



The "mailbox" facility of private viewdata systems, such as Systems Designers' IVS-3, enables information to be transferred rapidly throughout an organisation via individual viewdata terminals, the system's central mini-computer and standard telephone lines



The IBM Displayuriter is a modular, software-based system designed to be both economical and easy to use. The basic unit consists of a 12in display electronics module, typewriter-like keyboard, printer and diskette unit

# Packaging technology for the layman

VIEWDATA

GUY DE JONQUIERES

IT IS A truth well-nigh universally acknowledged (or, at any rate, endlessly repeated) that the rapid fall in the price of electronic hardware has brought computer technology within reach of a vastly greater number of potential users than ever scemed possible.

But it is equally true that the great majority of people know little about computers and know little about computers and find them difficult to understand and impossible to operate. Thus, packaging the technology in a form which makes it readily accessible to the layman (and, ideally, enables him to forget that he is dealing with a computer at all) is an important factor governing the speed at which governing the speed at which it gains public acceptance.

Viewdata systems, which allow subscribers to interrogate a computerised data base by means of a specially modified television, equipped with a keyboard or keypad, provide one solution to the problem. They are extremely easy to use, relatively inexpensive and provide ready access to a potentially limitless store of up-todate information.

## Marketing

The information is stored as "pages" which can be called up on the screen, one at a time. Facilities can be built in for editing the data displayed, and for sending messages from one terminal to another, electronically. By installing an "intelligent" terminal (that is, one equipped with some processing power of its own), an operator can even perform calculations using programs and data stored in the central computer.

The best-known viewdata system at present is Prestel, the public service operated by Britain's Post Office. It offers subscribers 150,000 pages of in-formation on subjects as diverse as financial markets, travel, agriculture, entertainment, property and health care. The pages are prepared by independent suppliers, known as "in-formation providers" (i.p.s.).

The Post Office had hoped that Prestel would find a ready market in households originally forecast that 50,000 sets would be in use by the end of this year. But partly of sets and the high prices charged for them, there are still only about 6,000 subscribers. Of there, more than 5,000 are busi-

The travel business is the single biggest market today, accounting for more than 1,200 of the sets installed. Prestel enables travel agents to look up information on air, land and sea travel and even to make reser-vations. The next biggest group, with about 200 sets, is investment companies.

The Post Office now accepts that a big residential market is unlikely to materialise in the short-term. It has decided to aim its marketing efforts principally at business users over the next couple of years, in the hope that set prices will fall sufficiently thereafter to stimulate an upsurge of demand among private subscribers.

One feature of Prestel, designed to appeal to business users. is a facility to rent space on the computer for storage of confidential information accessible only to designated sub-scribers. This arrangement, known as a "Closed User Group," would, for example, enable different branches of the same company to keep up-todate on information about orders stocks, accounts and so

For some business users though, especially those with large and dispersed operations, Prestel may not be sufficiently flexible and sophisticated to meet their needs. One case in point is the London Stock Ex-change, which last June inaugurated a private viewdata system to replace its computerised share price informa-tion service, which informs brokers of market movements.

The Stock Exchange decided to install its own system because information could be updated far more rapidly than is possible with Prestel. It also feared that brokers would have difficulty getting through to the computer when they needed share price information if they had to rely on the normal switched telephone normal to link Prestel lines used terminals.

Exchange's system. known as TOPIC, is based on a network of private circuits ironically, like many other City nology to private customers institutions, the Exchange complains that it is having difficulty private viewdata system, the

obtaining as many lines as it IVS. This was developed jointly needs. So far, about 150 ter- with Systems Designers (SDL),

£1m. But a number of indepen-dent suppliers are now starting to offer ready-made private viewdata systems, at prices of £17,000 upwards. They include the General Electric Company (GEC), Redifon Computers, International Computers (ICL), Honeywell Jasmin and Aregon, munications are required a subsidiary of the National between suppliers and their Enterprise Board.

GEC plans to launch its first systems, later this month. It says that they will offer facilities for rapid up-dating of information, extensive editing, electronic messages and effective data security. Users will, for example, be able to store data on their own private file in the computer and retrieve it only from their own terminal using a personal identification

GEC's biggest system, priced at about £200,000, will be suit-able for viewdata "bureaux." It anticipates that a number of private operators will want to set up bureaux which will manage information services for subscribers for a fee.

Redifon Computers, part of the Rediffusion Group, has already launched two systems which can either be used on their own or grafted on to an existing computer network. In the latter case, viewdata terminals can be used to gain access to data bases anywhere in the computer system.

Mr. Mike Aldrich, managing director, says that Redifon has already taken orders for 20 He is enthusiastic systems. about the potential for using viewdata as a learning aid which will enable students to receive instruction in their own med course through a terminal.

He also believes that viewdata could be used for "electronic shopping." visiting a shop, a subscriber would place his orders on a computer at a local warehouse and could even pay for them through his home viewdata terminal. But Mr. Aldrich acknowledges that it will be some time before enough ter-minals are installed in private houses to make such a service economically feasible.

Aregon (formerly Insac View data) was set up to sell British leased from the Post Office. But viewdata products and tech-

The very specialised facsimile

machines with high resolution,

used in meteorological and military applications, are made

by the British company, Muir-

head. But, in general commer

cial usage, there are three basic

technology and the speed in

which they can transmit a docu-

which there are international

standards set by the Inter-

national Telegraph and Tele-phone Consultative Committee

(CCITT), use an analogue signal

(waveform) to transmit the

document. Group one takes up

to six minutes to transmit a

page of A4 and many of the

machines that were sold in this area were made by Rank Xerox.
Group two, which are sold by a number of companies, are

quicker and have a maximum

transmission time of three

More

machines have "data compres-

sion" techniques which can speed transmission consider-

Data compression can work in

minutes.

Groups one and two, for

minals are in use and a further which markets it in Britain.

800 are on order.

Mr. Anthony Chandor, manag-S00 are on order.

The Exchange developed ing director of Aregon, says TOPIC itself, at a cost of about that on the basis of current orders he expects to see 10 IVS

systems operating within the next 6 months, with each an average of 500 terminals eventually attached. He believes that the prime market for busi-ness viewdata systems is in applications where direct com-

For example, he believes that

department stores will install puter programs get easieviewdata terminals enabling for some years," he says. "Be shoppers to find out exactly inevitably, you need an under what they have in stock and standing of data-base manag where to find it. Wholesale ment and of computer where to find it. Wholesale ment and of compute stockists could also use the languages. With a viewdata se systems to take orders from there is really a feeling the their customers.

that the essential appeal of any special instruction."
viewdata lies in its simplicity
and ease of use. Though conthe temptation to make view ventional computer systems are data sets more "clever" should

heir customers.

Mr. Chandor is convinced and operate it without needing

becoming easier to operate, he believes that it will be some time before they become accessible to the average man.

"I've been watching combet the state of the

# A computer,

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# Increasing popularity after a century of use

**FACSIMILE** 

JASON CRISP

OFFICE EQUIPMENT by crisp THE FACSIMILE transmission of documents has long been cited as a potentially very popular form of communication, but it has never taken-off as once predicted. Yet, now that attention is constantly focused on the electronic "office of the future," hopes for facsimile are being raised again.

According to the prophets, the work station in the office of the future will have facsimile, alongside the video screen, the keyboard and the printer. Ironically, for so advanced a notion, facsimile transmission was invented in the 1880s, by Alexander Bayne.

Facsimile is also one of the earliest forms of electronic mail, as is telex, which has been widely adopted throughout busi-

A facsimile machine allows a whole page of paper of A4 size to be transmitted along the telephone line to another machine then be reproduced exactly, including diagrams and signatures, rather like a photo-

copy. The facsimile machine works

by scanning the document, line- manufacturers offer automatic by-line and transmitting signals receiving equipment. which tell the receiving machine where the areas of light and dark are located on each line. Unlike telex, which is a system of telegraphy, using teleprinters, facsimile has failed groups of machines which are differentiated both by their

to become a normal form of inter-office or company com-The primary use of facsimile is for a specific purpose between two locations, either within a company or to a single client. The main users have been organisations such as banks—

where it can be used for the verification of signatures-and in publishing and newspapers. (The Financial Times, for example, uses a number of facsimile machines to transmit copy to Frankfurt for our

There have been a number of disadvantages in using facsimile cation. International standards mean expensive call charges. Many facsimile machines need to be attended and cannot

when the office is unattended—although

as a general means of communihave developed slowly, which means that most machines have been unable to communicate with others apart from those of the same manufacturer. Fairly slow transmission times can

> two ways, either the scanner annot jumps a line which comprises e is of white space with no text or most it compares each line with the CONTINUED ON NEXT PAGE

> > هكذامن التحل

# Demand continues despite recession

REPROGRAPHICS

JASON CRISP

EVEN THE recession has failed forstem completely the growth Applain, sales are growing by with an originally expected 25 per cent. But with dozens of companies aggressively battling for the market, prices, in real terms, continue to fall.

Rank Xerox and Fuji Xeroxstill towers over world markets, of although it is increasingly coming under siege from Japanese companies. Indeed, one of them, Ricoh, whose products are sold in the UK by Nashua and Kalle Infotech, sells more copiers, in terms of units, than Xerox.

At the top end of the range, with high-speed and high quality copiers, there is little competition for the Xerox range and where there is any competition. comes from IBM and Kodak. But in the low-to-medium speed plain paper copier range, which business is found, the competi- minute, and is dominated by the ties, as well as reducing com-

includes Canon, Minolta, Sharp, Toshiba and Ricoh from Japan.

The reprographics industry can be broadly divided into four main sectors. One: offset duplicators used for long runs of very high quality, used either in large companies or in print Two: high-speed plain copiers used for high volume and long runs. Three: addition to more centralised low- and medium-speed plain high-speed copiers. The idea. paper copiers; and, four: coated paper copiers.

Coated paper copiers are

paper copiers. The copies are poorer quality, are difficult to write on and not particularly pleasant to handle and would not normally be sent outside a company. The continued fall in prices of plain paper copiers has eroded the price advantage the coated paper at increasingly lower volumes of copies per month. Although a number paper copiers, it is a sector facilities which were once the which is in decline. facilities which were once the preserve of the large powerful

tion comes in hoards, and Japanese manufacturers, many of whose machines are sold by European and U.S. companies. Broadly, the market for these machines falls into two significant sectors.

Number

• Large companies which use this range of copiers in small offices and departments as an according to the manufacturers. is also to have a number of small machines around the relatively cheap and fairly building for quick and easy use, small, but the paper is much thus avoiding delays and queuThe Xerox empire—Xerox, more expensive than for plain ing.

• The other significant sector is small companies and professional practices, such as lawyers and accountants, who will be trading-up either from a coated paper copier or from the use of copy bureau.
There has also been an

increase in the number of relatively small machines which can have document feeders, sorters of companies still make coated and staplers attached to them-The major growth area is in and expensive machines. The low- and medium-speed plain rapidly falling cost of micropaper copiers which can pro- electronics has made it much duce from 8 to 40 copies a cheaper to provide extra facili-

self-diagnosis of faults.

But the rapid growth in the small company market for plain paper copiers has had a major affect on how copiers are for so long relied on a large sales force, selling directly, has had to make some major changes because of the very high unit costs of selling a single small or medium-sized

Rank Xerox, following the lead of Xerox in the U.S., is to open its own retail stores. The pilot scheme begins with two shops opening in London this month and there are plans for a third within six months. The stores will sell other office equipment like Apple com-puters, calculators and word

A number of other conier companies are looking at ways introducing their smaller and cheaper plain paper models into retail outless. The low end of the range of plain paper copiers is seen, by manufac-turers, as a commodity market. At this level, it is no longer

increased reliability. And micro-copiers through direct selling. pated in the short term. electronics has reduced service Most companies in the UK coming costs because it can offer bine direct selling with a dealer network.

A number of companies are having to devise means of reducing the marketing costs of their lower priced machines, Nashua, marketed. Rank Xerox, which a U.S-owned company which sells copiers made by Ricoh, is using self-employed agents to sell its latest very small plain paper copier in a bid to cut overheads. The company claims it is the smallest in the world of its type—it is also sold by Kalle Infotech, Nashua will still install and service the

Rank Xerox, which has long relied on direct selling, is now looking at a number of ways of cutting its costs and in addition to the retail stores has

started selling by telephone. Rank Xerox has also filled out its range where there had been a number of gaps which were being exploited very successfully by other companies. It means that it is competing in some of the fiercest areas, with the lowest margins,

Ricoh, which traditionally has been sold in the U.S. by Savin and, in Europe by Nach Savin and in Europe, by Nashua and Kalle Infotech, has announced it is entering both markets directly. The three companies which market Ricoh's products will continue to do so until 1983, and some for longer. Ricoh is poised to sell plain paper copiers with a dry toner and some parts of the industry suspect it is girding itself for a major onslaught on Xerox.

Although Ricoh's skills as a manufacturer are reputed to be high some parts of the industry question its strengths in marketing. But Ricoh appears to be moving cautiously and is setting up dealer networks in a number of countries. Nashua has begun to manufacture its own copier in the U.S. and Savin is expected to begin its own manu-

facture shortly. There are over 30 companies marketing more than 150 different copiers in Britain alone: of which the leading companies are Rank Xerox. Gnon, Nashua. Agfa-Gevaert. Gesterner, Mitsu-bishi and IBM.

Most observers anticipate two trends. The first, which is already happening, is a diversification of selling methods. The second is a restructuring of the industry into a fewer number of suppliers, although

ponent numbers, which has on the road to sell individual this is not necessarily antici-

Unchallenged

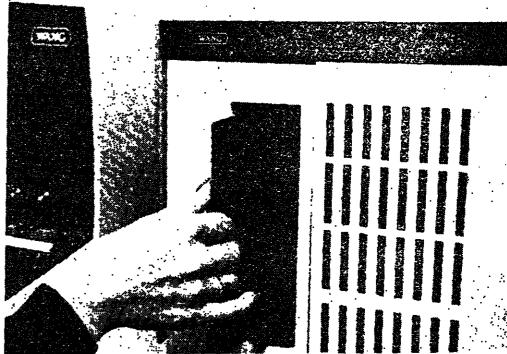
At the top end of the market, Rank Xerox remains largely unchallenged—for the being. It has recently launched a range of new equipment in the UK; it includes a copier which produces 120 copies a minute at a very high quality which, the company hopes, will make inroads into the metal plate offset market. In the U.S., Xerox launched

its first "intelligent copier which, in addition to high-speed copying, can receive text directly from both Xerox and IBM word processors and computers. A number of other companies have been racing to develop similar products, including both Japanese and

ompanies. Although Rank Xerox continues to dominate at the top end of the copier range, few doubt that the Japanese companies will begin to chase it upmarket. And while the total market for copiers is predicted to continue to grow, some of the combatants are likely to withdraw in the face of some



The Xerox telecopier 485, the latest addition to the Rank Xerox facsimile transmission equipment which already holds a major market share in the UK



A new "archiving workstation" from Wang stores and retrieves documents at sites up to 2,000 feet away from the system master. Operators in remote locations protect the confidentiality of their documents and conveniently retain control and storage of their text at their own work areas

## Facsimile machines CONTINUED FROM PREVIOUS PAGE

previous one and only transmits in the digital facsimile market, nected to the price of electronic ing to Mackintosh, it will begin

Nexos, the National Enterprise Board's office equipment machines which are compatible subsidiary, markets Muirhead's with the new group three facsimile equipment including one group two machine made by Muirhead itself and one made by the Japanese company, Oki. Plessey markets machines made by the Japanese company. Matsushita. Other companies in the market include Dex. 3M; Siemens and ITT.

Kalle Infotech, a subsidiary of the German chemical giant, Hoechst, is the major supplier of group three digital facsimile equipment which can send a page of A4 in times of 30 seconds to one minute. Kalle Infotech's facsimile is made by Ricoh, a leading Japanese manufacturer of photocopiers. an international standard for group three, but earlier this

CCITI which is expected to be ratified this month.

rear one was published

a number of manufacturers are data storage or memory. To standard.

Kalle Infotech itself will be introducing a more expensive contrast, communicating word machine which has been processors only need to send a adapted to meet the standard or it will convert existing in-stalled machines for between £1.250 and £1,500 each. The company claims there is an installed base of 25,000 machines worldwide (around 1,100 in the UK) which means it will be some time before the group three standard that of the Ricoh built equip-

Mackintosh Consultants, in has estimated that the number thus, facsimile can be sent of digital machines in the UK overnight, at a more economical would reach 23,000 by 1985, a rate. forecast which it now says is

Although it is not expected. A significant factor in the make it economic, but prices larity and it will be a log introduce a sudden growth development of facsimile is con- are falling rapidly and, according before it is superseded.

Sometimes it seems that there just aren't

In an age where technology can move

But now IBM introduces a wide range of

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enough seconds in the day to get all your work

information at electronic speeds, it can still take

days to get a finished document into the hands

major new office systems and programs.

improve your business productivity.

system that you've ever used.

dictionary of 50,000 words.

what its size—these new offerings can help

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how to process words. Just follow the instruc-

in creating, revising and editing documents.

1,000 words a minute using its electronic

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The new IBM Displaywriter can show you

It can even check your spelling at up to a

With the communications options, you'll

of the people who need it.

transmit a page of information, the text has to be scanned very finely so that many thousands of pieces of information are sent to the receiving machine. By processors only need to send a small amount of information to transmit a letter of text; this is

done in a form of computerised

morse code. But once a memory—such as a floppy disc-is attached to the transmitting and receiving machines, the information may be transmitted very quickly, saving telephone costs, after being scanned and then retrieved at the operating speed of the machine. It also does not restrict the operator to the its study on electronic mail, availability of overseas lines-bas estimated that the number thus, facsimile can be sent

> The problem is the memory is at present too expensive to

> > suitably programmed computers.

in size and capability.

from £4,878\* plus software?

And because the IBM Displaywriter is

in size your Displaywriter system can also grow

You may want to design your system initially for

one person, then graduate to two or three-by

adding more display screens and keyboards,

and later perhaps faster printers. Or start with

basic word processing and add more software

And although a major design concept

programs as your needs grow. This is why it

can be more efficient and more economical.

was ease of operation perhaps the easiest

thing about it, is it's price. Would you believe

So you only buy as much as you need.

modular, it's flexible. As your company grows

to look feasible to add a floppy disc to a facsimile machine by about 1984-85. Then it will have the advantages of high speed transmission, store and forward. as well as that of being able to send diagrams. Another basic advantage of

the system is that it does not involve the expensive process of retyping, as the original document can be transmitted. Inevitably, the growth in the market of word processors, which will be able to communicate with each other, is a potential threat to facsimile. Similarly, intelligent copiers, which can communicate with each other, are seen as a much more distant threat. Farsimile is unlikely ever to

become as popular in Europe as it is in Japan - where the number of characters in the script make it a very attractive way of communicating. But, according to many observers, the method will grow in popularity and it will be a long time

gives confirmation of delivery.

It's easier than you think. For example, special instructions appear on the screen in plain English when help is requested and you can control many different functions from one work station.

In fact the 5520 can do several things at the same time. As well as the communications activities, many of the traditional word processing revision and pagination functions can, if desired, be carried out by the system automatically, thus leaving the secretary free to undertake other tasks.

The IBM 5520 is an integrated system supporting multiple work stations, all sharing the same information and facilities. And the 5520 can form part of a network exchanging information and documents. with other 5520's, suitably programmed System/370 computers as well as the new Displaywriter

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By providing extensive text and data processing functions the system can handle both secretarial and administrative tasks in a manner that allows integration with the business communications needs of professionals and

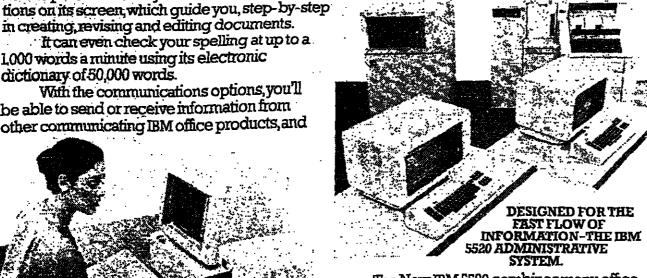
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The New IBM 5520 combines many office administration activities with electronic document distribution.

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File Processing-with the 5520 you can add, subtract, multiply, divide and compare numeric information within files. It can also perform multi-step tasks with just one instruction.

Electronic Document Distributiondocuments can be transmitted in minutes-to a single person, to a distribution list, or a combination of names and lists-and the 5520

be able to send or receive information from other communicating IBM office products, and

# sum 2 33 +

Calculators for the businessman: The model T1-44, above, has special keys which produce immediate solutions to many commercial problems. With a suede-finish vinyl wallet case, it comes complete with a manual containing operating instructions and examples of problems which can be solved. It costs under £35

Below: The Citizen 101-DP calculator which is designed "for the busy desks of middle manage-



# Tending towards specialisation

## CALCULATORS

ELAINE WILLIAMS

THE general consumer market for calculators fairly static at about 50m units a year. worldwide, manufacturers have begun to specialise in those areas which still show a growth. Japan, and Esselte-Dymo which These are the office equipment sells the Citizen brand. and professional/scientific mar-

Today, the cheapest four-unction calculators have "throwaway costing typically around £5 and only those companies with large market shares, such as Sharp and Casio, can produce the production volumes necessary to make a profit from this market.

However, in the office and scientific sector there is far more added value and more specialist makers can offer machines which are specific to a company's or individual's

## Expansion

A few companies such as Texas Instruments and Howlett Packard have always adopted this market specialisation to some degree or another — Hewlett Packard produces a range of scientific machines which are often difficult to distinguish from small computers.

Texas Instruments is also heavily involved in the technical sector although it also participates in the general con-sumer market. The company produces not only traditional pocket calculators but also a variety of machines which provide translation into and from foreign languages; other items help children learn to spell and

For business applications, language translators are being encourage language barriers to be broken. Many of the machines provide vocabularies of more than 500 words. with a few sentences and

Such machines cost around £100, although the prices of the they are overtaken by more sophisticated sodels. Early examples were of limited use, since they could only retain a list of about 100 words. Before it may be possible to throw away business phrase books altogether, using instead, an electronic translator.

Honeywell printers \$10 and \$30 for mini, micro and professional personal computers

Horizons

areas of the market is the bur-geoning office equipment sec-tor. Many of the companies which compete here are also involved in other aspects of office equipment and include Olympia International, which makes typewriters; Triumph Adler (OEM Group), another type-writer maker; Casio, Canon manufactures

Sharp; Toshiba in

Office users are becoming more selective about their choice of calculators, avoiding over-complex models which may be capable of handling intricate, favour of more simple designs, aimed at the user's particular

copiers,

Some examples of this trend include a range of seven desk-top models from Facit which vary in facilities from a tendigit, print-only machine to a 14-digit print-and-display model two independently addressable memories. Other companies, such as Olympia and Toshiba Citizen, have equally large ranges of calculators. some which have small highspeed printers.

In addition, many machines offer a variety of features such as integral clocks and calendars Toshiba, for example, offers a pocket calculator which can show which date falls on which day of the week.

## **Facilities**

According to the company, the machine can be used to find out and plan for business commitments, holidays and anniversaries; it also acts as a clock, alarm and stop watch and has a four-key memory.

Some manufacturers have models which allow entries to be made for future dates. Other types of office machines, such as word processors, often contain such functions and can automatically print out what appoint-ments are due and when.

It is now becoming common for even small hand-held calculators to have a small printer attached which cost, typically less than £50. Many of these the home as well as the office.

In the traditional hand-held calculator sector, the extension of battery life has become an important selling point in both domestic and office applications. In some early models, batteries would only last a matter of

calculators are now expected to last up to a year or more.

Extending the battery life has been achieved in two main ways: first, by incorporating displays which consume less energy and, secondly, by new battery design.

Early calculators which were battery-operated used a light emitting diode display (LED)which were often a glowing red in colour. Unfortunately, these were relatively power-greedy devices and, by the late 1970s, began to be overtaken by a lowpower display, using liquid

Liquid crystals now dominate hand-held calculator displays; these are composed of a glass

tiny cells between two glass plates, which are etched with patterns of numbers and letters. The liquid crystals is made up of organic material which becomes dark in colour when a voltage is applied to a particular

## Design

Each cell is connected to the electronic control circuitry so that the chemical can be made to appear dark or transparent at will to form any particular

In the field of battery design. batteries incorporating lithium. instead of silver dioxide, are

resulted in increasing battery life from about 1,000 hours to more than 8000 hours which extends the operation of a calculator without a battery change, for up to ten years.

May, for example. Olympia introduced three-pocket machines with lithium batteries which have no means of changing the battery. The ompany says that users are likely to become bored with the design of the LCD 80, 380 and 480 long before the battery reaches the end of its life.

As well as lithium, some manufacturers have even introduced solar powered calculators which, it is claimed can store

One of the most lucrative weeks, or a few months at most; sandwich with liquid crystals in being introduced. This has Britain's unpredictable climate -to operate satisfactory, in any

general consumer calculator cation of office equipment tend now to be marketed through dealers in professional supplies. while the low-price, pocket and hand-held models are still distributed through the major

high street multiples.
Dealers, therefore, have a far closer relationship with the manufacturers and the range of models that they supply, so that the business user is able to obtain sound advice on the type of calculator which will



A range of desk-top dictation machines from Philips Business Equipment features a visual "mark-and-find" facility, giving precise visual instructions on the cassette. The facility gives a secretary precise knowledge of the nature and amount of work left for dictation

# Sales expected to double over next few years

DAVID CHURCHILL

dictating machines which, at has retail sales of about £20m, is expected to double over the next few years as a result of new technological developments making dictating equipment an effective means of reducing costs.

The main development which will spearhead this growth is micro-technology which making dictating machines more portable than ever before. But further factor is the increased use of automated word-processing equipment in offices - in the constant search for greater productivity — which will make even more important for efficient word-inputting via dictat-ing machines to match the

ophisticated word-processing. Probably the key advantage of a dictating machine system is the savings that can be made in executive time. The dictat-ing machine user is able to give dictation at any convenient hours, without the need to arrange for a secretary to be present. This also can lead to substantial savings in staff time and costs—especially important in view of the rising scale of

Demand, overall, for dictating machines has increased in ing need for transcription capabilities within the office. It is considered essential that, in order to make the best use of expensive office overheads, both equipment and staff time are put to optimum use.

A guide for potential buvers dictating machines, published by the Business Equip-Association, stresses that it is essential for managements to determine exactly what type of equipment is required.

It suggests that a specialist consultant's advice may even be necessary before any final deci-

Moreover, the guide points out the short-sightedness of buying equipment on price alone, without careful consideration of the user's requirements as well as the possible expansion of an organisation. The guide also suggests that the widest possible range of different suppliers should be asked to submit quotas, giving the greatest number of options

The guide also points out the importance of proper training. It suggests that while the typist within a short time, it is more which has about two-thirds of to renewed activity in this field important that the executive the market. One of its most by other major manufacturers, properly trained.

"It is probably fair to say that users would be better advised in ensuring that the equipment or system is fully utilised in a competent fashion than being over concerned with the technical excellence of the equipment," the association guide says.

Most executives would obviously prefer to do their dictation with a secretary taking notes and many become tonguetied at the sound of their own voices. For that reason, users may be quick to find fault with a machine. Manufacturers therefore aim to make their products as easy to operate as

"We have to make sure people don't find an excuse to throw the machine aside and revert to their old system," one

company candidly admits.

Most of the larger manufacturing companies offer training schemes in conjunction with their equipment. But many users still regard training as unnecessary in the belief that dictation is a simple matter. Most manufacturers consider that it is unlikely that a user equipment unless some training is given, sometimes for as little as one day.

## **Divisions**

The dictating machine market is divided into two main types of machines: those which are portable and those which are primarily intended for desk-top use, such as for play-back as part of a wider word processing system. However, it is the small portable machines which have ccounted for the fastest growth.

The size of portable machines is largely determined by the size of the cassettes, and there are three main sizes to choose from. Firstly, there is the standard cassette, used for domestic tape machines and, thus, generally considered too large for small portable machines.

Secondly, there is the mini cassette which is the most popular size. The mini-cassette about the length, width and half the depth of a matchbox and can record 15 minutes each side, although some can record for 40 minutes. Thirdly, there is the micro-

cassette which is slightly smaller than the mini-cassette. The development of this micro-technology has enabled the major companies to market their machines especially for the travelling businessman who can keep up with his work literally

on the move. The market leader in portable

can usually master a system dictating machines is Philips, machine sales, however, has led system series, launched in 1978, which introduced the mini-cassette system with the "mark and find" indexing system. The cassette has a special built-in index strip on each side which indicates to the typist the number

There are about 20 manufacturers in this field, including IBM, Sony, and Lanier, all vving for a share of the growing market. This makes it even more letters, their approximate necessary for companies to carelength and special instructions fully "shop around" for the on the tape. best system for The growth in portable the right price. best system for their needs-at

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centralised dictation systems.

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SIO: 80 columns S30: 132 columns

# More sophisticated systems may soon emerge

Micrographics

GEOFFREY CHARLISH

REDUCED TEXT images on film are nearly as old as photography itself and can be traced in 1839. A French photographer advantage that they can then used carrier pigeons to fly be transmitted somewhere else. used carrier pigeons to fly 100,000 messages out of besieged Paris in the Franco-Prussian war (1870). But microfilm was first used commercially in 1925 to film cheques in a New York bank Kodak first offered

equipment in 1928. The financial institutions are still the main users, accounting for a quarter of the market but nowadays manufacturing and government are not far behind. Consultants G. G. Baker and Associates put the total UK market at nearly £65m, covering hardware, maintenance, consumables and bureau services.

Growth of the market has been at about 20 per cent per annum for some years but whether this will continue depends on erosion by electronic storage techniques.

has to be typed, it is an increasto hold the text on a magnetic disc or even a solid state store for play-back on a printer in a minute or two.

Even original documents that need no operator keyboarding such as cheques can be scanned to an Englishman called Dancer and stored digitally-with the The legality of such techniques is still under consideration, however.

> Where maps and engineering drawings are concerned microfilm certainly scores at the moment but they will be increasingly composed on VDU cathode ray tube screens from touch tablets or external digital data-which is easy to store on disc. The data can then be plotted automatically for shopfloor drawings in a few minutes (assuming, in tomorrow's world, that such drawings will even

> All these and other things are possible and the objections to them usually quoted of capital cost and the need to key in data are losing strength. Electronics is getting cheaper and cheaper

vironment the document has to attack of electronics. ingly cheap and simple matter be created somewhere. It used to be emphasised that microfilm could not be altered, but developments

changed even that. At the moment, the clear-cut application for film is in totally archival, long-term, relatively cheap storage occupying minimum space and this will probably remain the case for at the next decade. Which of the presently used

microforms will endure is hard to say. Those available are 35mm roll for engineering drawings, 16mm roll and cassette, jackets (strips of 16mm film in a holder, making updating less expensive), fiche (up to 200 images on a postcard-size piece of film), ultrafiche (3,000 images) and even 105mm roll film. There are a variety of ways in which the images can be put on the material and a number of proprietary ways of retrieving them.

In terms of viewers, some of which will print copies as well. there are well over 250 equipments to chose from. The considerable variety of both format and equipment hardly fits the

Jackets may lose favour in view of the recent announcements by A. B. Dick and Bell and Howell of updateable fiche. The former allows blank spaces in a fiche to be filled while the latter permits a frame to be erased and replaced with another, ad infinitum. No wet chemistry is involved in either case. Clearly, the Bell and Howell system, called Microx, has shifted microfilm away from its archival posture rather sharply: some of the flexibility electronic storage is now

## **Possibilities**

vested in film.

At this point, alliance with electronic data processing could give some interesting machines. Both document filming and VDU screen filming on to these fiche would allow two stores: one rather more current and electronic and the other rather more archival and filmic. The technology exists for the images on film to be scanned into a digital signal, crossing the film/ electronic barrier in the other

For example, if a document and in the integrated office en- industry for countering the direction and allowing display multiple cassettes, can be on of the film image on some distant VDU.

> Once this interface between film and electronics is established other office activities can be embraced including word processing, facsimile, business data processing—even copying would be feasible, from the

It is not too difficult to visualise such a machine cen-tred around a VDU work station in which the image on the screen is repeated internally on a high resolution tube for fiche recording. The work station would accept images/data from disc (word processing, business data, etc.), from a line-by-line scanner of original documents or fiche (via a single frame store), from facsimile input or from external data bases such as viewdata. Anything could go on or off tiche or on and off

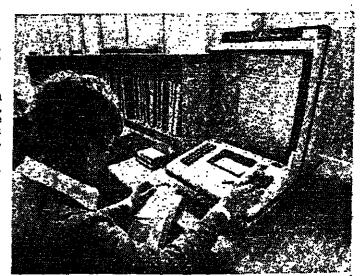
disc, more or less at will. Such an all-embracing system may not be too far away since one of the difficulties, reasonably quick microfilm access, has already been solved to the point where any frame from 4m, stored on 105mm roll film in

screen in under 10 seconds. Carousel systems with 760 fiche can store 200,000 frames with access in three or four seconds.

A few weeks ago Terminal Data Corporation and Antone Systems of Bournemouth demonstrated such storage and a good deal of the electronic technique mentioned above. The accessed frame is digitised by a line scan camera, held in a solid state frame store and made available to terminals which have intelligence and character generators to allow annotation of the "film" image on the screen. The German police are to use the system to add radio-derived positional data about accidents to maps brought up from a fiche store -automatically.

Also tackling fast fiche retrieval is Access Information in the U.S., and the equipment is marketed here by A. B. Dick. This holds the fiche in linear rows in magnetised fiche holders; a magnet extractor system commanded from a keyboard pulls out one fiche from thousands in a few seconds.

At a rather less glamorous



Microfiche equipment from Bruning Micrographics in use at the British Library

level Kodak recently showed customer file from the comhow normal VDU-based retrieval of brief customer data from a computer can be backed up with fuller data from microfilm. source documents (invoices, shipping tickets, bills of lading, etc.) are initially coded and microfilmed and paper copies of them are passed to the VDU/reader operator who keys in the code along with the customer data for the computer.

At inquiry time, when the

puter for query purposes, displayed digits tell the operator which film cassette to load from a bank into the reader. A direct data connection from the computer drives the 16mm film to the right frame within seconds.

More sophisticated develop-ments of this kind will probably emerge soon; indeed, some feel that the future of microfilm in tomorrow's office will depend

# Trend towards small electric machines

## **TYPEWRITERS**

LISA WOOD

AS A nation Britain is among the most conservative in the developed world in its use of improved typewriter technology.

Br it was in 1977 that for the first time sales of electric matical machines. While in Germany today only about 10 per cent of typewriters sold are making and in Southern Ireland, about 25 per cent, in Britain about 30 per cent of total typewriter sales are still manuals.

Mr. Chris Hedges, chairman of the typewriting division of the Business Equipment Trade Association and director, marketing, Smith Corona, said: The fault has not been so much that of consumer resistance, but more at the door of manufacturers and dealers.

"Many dealers, for example, neered by Smith Corona. Sales were brought up with the are now running at about 80,000

11

We now need to suit the product more to the requirements of the machines.

The trend in the industry shows a very definite swing towards use of the small electric machine. In the second quar-ter of this year, the market for beavy outy office mamuals and heavy duty office electric machines fell by about 40 per cent compared with the same period last year. However, growth was seen in the market for small electric machines, withsales growing by more than 15 per cent on the same period last year.

Impressive The growth in sales of small electric machines during the last 10 years has been extraordinary. In 1974, about 4,500 electric machines were sold in the UK, the market being pio-

need, the product must be big. Japanese company, Silver Reed, produce a wide variety of

> A third option to the consumer is the electronic type-writer. These offer certain advantages over the existing electric machines — be they golf-ball or bar typewriters -in that they are quieter and can centre headings, give right and left-hand justification, corrections and tabulation printing, all done automatically.

Companies have gone to great worried by the inroads being made on their jobs by elect-tronics, that the electronic typewriter will not put them out of a job. Olivetti, for example, in introducing the ET 201 and ET 221 into the UK last year. took 800 secretaries to a special launch to show the electronic typewriters.

At the moment, much of the resistance in the market is because of the price of the elec- respond accordingly.

manual and still have the big units a year and the major tronic machine, which can cost beavy typewriter mentality manufacturers, including a up to £1,400, but as with all That is, if there is a commercial strong new presence by the electronic equipment the cost of production falls as volume production .increases. Dramatic examples of this have occurred in the electronic calculator and electronic watch market.

However, such large falls are unlikely in the typewriting field as the typewriter is a profes-sional piece of equipment which has to be regularly serviced and also has a higher profit mark-up.

But the great advantage of the electronic typewriter is that it has fewer moving parts than a conventional electric machine, lengths to persuade secretaries, and therefore is more quickly assembled, is easier to maintain and repair and, in theory, has a longer life-time.

> Although the UK market for typewriters this year has been generally depressed, manufacturers are optimistic of their machines future. For much of the fall-off is because companies are delaying replacement of machines and when the economy picks up sales will

Although some machines may be replaced by word processors, manufacturers say that these will be mainly located in the "typing pool" regions of the office, with their heavy duty machines. Demand for electric and electronic machines will be maintained (and increased in

the electronic area), particu-larly with the growth among companies of "key-board The greatest growth area, must come in the field of the electronic typewriter. A new electronic machine introduced by the Smith Corona Corpora-

tion in the U.S. is one of the interesting recent machines. It uses a typing element, driven by ultrasonic waves. This advance eliminates between one-third and onehalf of the mechanical parts found in a conventional electric machine. This product sells in the U.S. for \$900, about one-half the price of comparable electronic typewriters offered by IBM, Xerox or the OYX unit of Exxon. But the established giants of the industry are facing a new

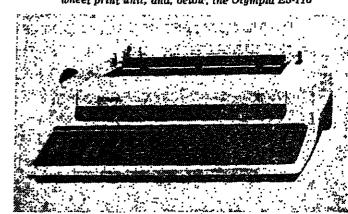
threat—that of Japanese manufacturers. They are poised to enter the electronic market with a vengeance and have already made swift inroads into the electric machine market. The Japanese, with no large domestic market for typewriters because of the language, used Germany for their marketing attack and now dominate the small electric sector of the

Existing companies will now have to look to their laurels. Some may decide to leave volume production to the Japanese and move to even more sophisticated technology with attendant higher prices.

"We have a real battle on our hands with the Japanese," says a Smith/Corona spokes man. Maximum effort must be made by the established companies to market their new products, as long as the price gap between their products and those of the Japanese does not become too large.



Above: the Olivetti ET-121 electronic typewriter with daisywheel print unit; and, below, the Olympia ES-110



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# Manufacturers facing a si period of retrenchment

## FURNITURE

DAVID CHURCHILL

THE UK market for office furnilure, which has remained buoyant for the past few years in line with the overall strength of demand for office property, now seems likely to face a period of retrenchment as the recession leads to fewer office developments.

Several other factors are also likely to combine over the next few years to give the office furniture manufacturers a fairly rough ride. One adverse factor is likely to be the slowdown in orders from the Middle East, which in the mid-70s emerged as an important market as the oil-rich Arab world indicated a clear preference for British office furniture, instead of its German, Swedish, and American competition. The political instability in that region, however, has already led to a downturn in sales.

Another problem in the UK market is the "U-turn" in Government policy of dispersing some of its offices away from London, as well as cutting back on the role of the Location of Offices Bureau. The exodus from London during the '70s played an important part in stimulating domestic demand for office furniture.

And there can be little doubt that the small businessman, in particular, does not feel prosperous enough at present to refurnish even his own office, let alone his secretary's.

## Divisions

The office furniture market is divided broadly into two main sectors. On the one hand, there are furniture consultants who offer a more extensive work study of a customer's needs before recommending the appropriate furniture. The second, and larger area, is the conventional retail and wholesale furniture trade.
The main theme in the

development of office furniture, however, has been the growth of "systems" designed to make the most efficient use of a limited amount of office space. As office rents have soared during the 1970s, so has cus-tomer interest in these systems One approach, pioneered in the U.S., is basically a com-

the U.S., is basically a compromisc between traditional walled offices and open-plan. It last longer — but it also has

consists of moveable walls because most people like to work within walls — which can be grouped to form a honeycomb effect. A development is to attach working areas to the walls, with an obvious saving

Another system, closely asso-ciated with German furniture manufacturers, is to group desks together according to the work patterns in the office. This has the advantage of being more like open plan and gets away from the use of walls. The move towards systems furniture has also been helped

by the greater willingness of customers to buy quality materials, rather than go for the cheapest alternative. This has been helped by the fact that, with office rents so high, office furniture is now a much smaller proportion of the total cost of accommodation and therefore it becomes more feasible to buy food quality fur-

Higher quality furniture has the advantage that it not only

more immediate advantages of built-in accessories. Instead of cluttering desks with telephones, calculators and clocks, these items can often be incorporated into the furniture. The legs of desks can be used to carry the wiring, for example, and all the electrical inputs can be gathered together in a box attached to the bottom of the

OFFICE 2.000" opened by the Industry Secretary, Sir Keith Joseph: a new centre in London

showing the latest in business equipment. The centre is the showpiece of the Office International Group, as well as an exhibition centre for the business equipment industry. With Sir Keith, from left: Sir Nicholas Cayzer, chairman of the British and Commonwealth Shipping Company: Mr. Leonard Sculthorp, chairman OIG; and Mr. Barry Hordle, deputy chairman OIG.

Although most offices are a hotch-potch of designs, materials, and equipment, new ideas are making inroads. Filing cabinets, for example, are often considered to be too space-consuming—so a modern trend is to go for shelving storage, rather than upright cabinets.

Much research also has been carried out into chair design, especially since more than 15m working days are lost each year through back complaints (more than all the days lost through strikes), and the bill to the National Health Service is in the order of £300m. The Civil Service, in particular, is anxious to improve its chair and desk designs so as to reduce the number of back complaints.

ing an important role in the development of office furniture. Furniture must have rounded! edges which will not snag on clothing and chairs and desks must be stable. Filing cabinets cannot be allowed to topple over; and the power leads which feed desk-top equipment must not present a major office hazard. The use of VDU's requires carefully controlled lighting levels while desk tops are designed to minimise

reflected light glare.
Future developments in office furniture are likely to reflect the trend (cwards a compromise office, neither small and cellu lar but also not strictly open plan. Screens, for example, art likely to be increasingly popular since they are useful at display boards and allowing storage units to be attached, as well as making individual desks into complete "work stations" if needed.

The problem for niture manufacturers, however. remains one of whether demand will increase sufficiently to make new developments in

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# Conflicting opinions on the effects of automation

SOCIAL IMPACT

JOHN LLOYD

THE PROPAGANDISTS for automation and opponents usually occupy the opposing sides of the same coin. The first group stress the benign effects that computerised technology will have on the working environment and upon work practices - relieving the drudgetry, speeding the flow of of information.

The others point to the increased rate of work exacted by the new equipment, its capacity for detailed surveillance of the worker, its capacity to dehumanise office work by cutting down on leisure or slack

It is therefore unusual to see a leading manufacturer of office products choose, as it were, from the centents of both sides in the best short description this writer has seen of the social purpose of office automation. (Note: "Taylorisation" in the ensuing quotation\* refers to the adoption by late 19th century manufacturers of organised production line techniques, after the models developed by Frederick Taylor, the U.S. steel executive).

"The taylorisation of the first factories, developed as the answer to competition between companies, is a digitalisation of the productive process.

"At first, it enabled the labour force to be controlled and was the necessary prerequisite to the industries were able to win competition over the putting-out on office work:

technology of co-ordination and taylorian organisation does not Co-ordination and control-

this is letting the cat out of the

blunt, way of expressing the Word processing equipment self-evident truth? These fig- would reduce numbers of typing self-evident truth? These figures on productivity lie behind staff . . . filing clerks could be the statement:

• Growth of office staff in ten years—45 per cent (against six per cent of total worker population). Productivity growth—4 per

cent (against 80 per cent of the worker population). In short, office staff simply

are not delivering the goods in the same increasingly efficient way as their blue-collared counterparts. That is not, of course, their fault: they are relatively grossly undercapitalised, with only around £800 worth of equipment invested in them (on avearge), as against an average of £10,000 to £12,000 in a factory worker. Thus, like the blue collars, the white collars will soon begin to reap the benefits of greatly increased investments—namely, a radical change in work, and less of it to go around, coupled with a greater stress on regular, paced

taken about these predictions, as we are constantly reminded: there are those who claim that office work will increase as we adopt automated systems. (the and the more it will increase), because the higher productivity will generate demand for more and more services, outstripping the productivity gains. This is possible but, or available evidence, unlikely.

Comprehensive

The most comprehensive attempt by the British Government to predict employment subsquent mechanisation and change, consequent upon the automation of the productive adoption of computerised process. In this way, taylorised systems, was characteristically balanced in its pronouncements

. . it is not possible to make Data processing is, there- quantified comparisons of the fore, a continuation of a story staffing of the eletronic office, which began with the industrial with its predecessor. In any revolution, which incorporates case, in practice there will not the development of abstract ter- have been a single jump from minologies within the develop- a fully manual to a fully elecment of technologies. Informa- tronic office; there will have tion technology is basically a been a slow, steady evolution from the one to the other, so control of the labour force, the that even when such offices do white collar workers, which enter the realm of reality, comparisons with manning levels in earlier systems may not be

bag, indeed! Yet is it not merely however, that a lot of convena novel, perhaps uncommonly tional jobs would disappear.

greatly reduced in number...

a third area of work that could
obviously be affected would be

that of message carrying. . . . "On the other side of the equation, the only job-gains that can immediately be seen are the programming of the themelectronic systems selves. .

(The Manpower Implications microelectronic technology: Department of Employment, HMSO, 1979.)

On balance, then, there is a careful forecast of job loss. And indeed, if office jobs are to be "taylorised" in the same thorough fashion as industrial jobs have been, then, on that analogy, we can expect employment to shrink, both relatively and absolutely.

Clearly, we can expect both

an expansion of services and the creation of jobs in elec-tronics, sofeware production and maintenance. But a commonsensical review of the imme-Or probably so. Care has to be diate future suggests that the aken about these predictions. loss of jobs in the labour-intensive areas of the office cannot be compensated by situations vacant for programmers and electronic maintenance engineers-leaving aside the problem. of transition from one skill to the other.

It is precisely this view which has caused concern to unions and governments worldwide. White-collar work has, together with the service sector, largely compensated for the fall-off in employment in the primary and secondary sectors.
When both of these previously

growing areas are under attack, what is left but unemployment? In a characteristically imaginative way, the UK's wonder-growth union of recent years, the Association of Scientific, Technical and Managerial Staffs, has mounted

a campaign which prominently figured a dustbin overflowing with white-collars, stressing that few (with the obvious exception of ASTMS) cared for the fate of the bureaucrat. The union does, indeed, have a strong impetus for caring: like others, it is losing membership, \* F. de Benedetti, managing an unfamiliar and uncomfort- director of Olivetti, in "The able feeling

This threat to their members' livelihood, and to their own "It is immediately clear, strengths has rarely made the unions act in a reflexively obstructive fashion.

To be sure, there have been delays in bringing in automated office equipment, most notably in town halls where the unions are strong and bureaucratic procedure frequently leisurely. Certainly, there has been again, in those areas where the unions have a purchase - an insistence on health and safety procedures for those working with visual display units, which has resulted in agreements being signed specifying rest periods of as long as 20

minutes in the hour. Yet, the general progress of offices towards new systems has not been halted by unions in the way, for example, the print unions have been able to hait the introduction of computer systems which by-passed their

members in newspapers.
While this progress has been slow, most agree that it has been reluctance to invest in the new systems, rather than simple union of employee obstruction (though the latter may play a part in the former). which is the root cause.

Reaction

The unions' reaction has been conditioned by a general appreciation that while the automation of office (and other) sks will cause a loss of work. a failure to do so will have

even worse consequences. This appreciation is, naturally, not shared by all union members, especially those on the sharp end of what is, or appears to be, a clear case of technological redundancy." It will clearly be largely absent in those sectors which face little or no competition, as in local government. It is far from Japanese in its enthusiasm.

Yet, there is enough experience to show that European workers will embrace new systems where they enhance the work environment, where they result in an expansion of services and/or where they must be introduced if the company is to remain competi-Where they are undertaken only to reduce labour. there will often be resistance. What else can be expected?

Impact of Electronic Techno-logy in the Office at the Financial Times Conference, Tomorrow in World Electronics," London, March 21/22,

# higher standards

## OFFICE BUILDINGS

DYAN SUDJIK

WHATEVER EVENTUALLY does get built on the Green Giant site next to the Vauxhall Bridge, the affair has already demonstrated a significant shift pi public attitudes toward office

For the first time, an anti-development lobby was able to mount a campaign based on methnological issues.

Large-scale offices in city
Mentres will soon be obsolete,
Manual Computer terminals will
Southwark's MP. Personal computer terminals will allow managers to work from some, or at least in dispersed offices. And word processors will eventually mean paper-free Diffices, potting large numbers of secretarial staff out of a job, and raising the spectre of hun-dreds of empty Centre Points.

In the event, the debate was inconclusive. The Environment Secretary, Mr. Michael Heseltine, vetoed the Green Giant, simply because it was too big. Given the present social system, it seems unlikely that many people would voluntarily opt to work from home. And so far the only buildings to have become redundant at an uncomfortably rapid rate are the big computer halls, built in the late sixties. The latest generation of computers is much smaller and needs far less air conditioning than its predecessors. But even if Mr. Holland overstated the case, his argument does highlight the importance of looking at the long-term con-sequences of office design.

There are, in fact, three different time-scales involved. The ongest is the life of the building stitell itself—at least 60 years. The shortest is the period of a few! weeks over which changes to furniture and equipment lave outs are needed. Somewhere between the two is the life of the Cartitioning between departments—around a couple of

## Consequences

Apparently trivial decisions over the choice of material for the shell can have far-reaching consequences for the running costs of the building. But it is only receptly, with the evidence of the disastrous failures of the 1960s, that long-term performance has become an issue. A largely reluctant occupants, a brief energy glut allowed archi-tects to design buildings with offices without walls are not the all-glass walls and poorly insu- panacea that the enthusiasts lated roofs that have now turned lato gas guzzlers on a work in certain circumstances massive scale—but which un- and for particular types of fortunately show no sign of rusting away.

The form and shape of the building is just as important for energy efficiency as the choice of materials. Deep-plan buildings lose less energy because they have a proportionately smaller area of ex-posed walls for heat to "leak" away. But, equally, they need more power to operate artificial lights throughout the day. The trick is to balance the twobut at the same time not lose sight of the aim of producing decent architecture in the midst of juggling conflicting technical



Caxton House, the Department of Employment's new building, next to the Central Hall, Westminster, shows what can be achieved in terms of environmental quality

which caused the loudest outcry was the sheer mediocrity of the design. Public expectations of new developments, particularly in sensitive city centre areas, have grown more demanding over the years in response to a deluge of simple minded anonymous blocks. And developers are finding for the first times that the market has shifted against them.

To build offices that can be let quickly now means providing higher environment standards, and that includes designs that look better.

Interior layouts are shifting away from open planning. After two decades in which architects and office planners have tried to foist the burolandschaft, or office landscape, approach on once claimed. Open plan can

plans are tending to be much more irregular than they were, quarters for the Central Electricity Generating Board, outside Bristol demonstration side Bristol, demonstrates the ture, complete with battlements approach applied to a building and oriel windows, that manthat was designed from the start to be a text book exercise in tinguished surroundings. And energy conservation. thanks to the thick masonry

Both interior layout and shape minimise energy use and help occasional window, heating bills create a civilised workplace. It are kept down, too, is a long, low building, divided into a series of interconnected pavillions which have deeply overhanging roofs that come three feet clear of the windows and put them in permanent shade. The pavillion form means nobody's desk is far from a window, making it possible to rely on daylight to provide most of the background light.

There is also a background level of fluorescent light, switched on automatically on dark overcast days, as well as individually controlled desk lights. This is an arrangement that reduces both the direct energy consumption of people, journalists, for one—load on the air conditioning out only if used with skill and system needed to dissipate the careful planning. If used in a waste heat from the light debased, cost-saving version the system can become chaotic.

Taken together, the result of ingenious feature of the building o

all these conflicting pressures ing is the network of holes cast has been a reaction against the into the concrete floor slabs. simple rectangular slab blocks During the summer, cool night of the 1960s, when buildings air is allowed to circulate wer clad in curtain wall glazing through them, which reduces and set in windswept plazas, the build up of heat during the and set in windswept plazas. the build up of heat during the For both visual and energy-following day, and hence the saving reasons, facades and air conditioning load.

with deep overhangs to put Central Hall, Westminster, networks are common place, and windows in shade and stop the shows what can be achieved now specially design partition-greenhouse effects that plagues from a speculative development. It is worth remembering that many of the glass-walled buildin terms of environmental
the point about Greecen Glant ings of the 1960s.

quality.

ages to look at home in its dis walls, pierced by only are kept down, too,

There is still room for the purist approach, but it requires skill and care to make it work properly. Richard Rogers, for example, is designing the new Lloyds building in the City, using a specially developed triple glazed cladding that will have the insulating characteristics of a brick wall.

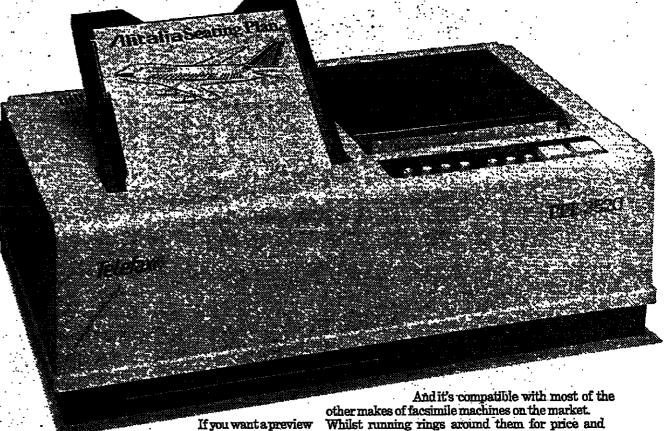
Partly because of the growing complexity of office machinery, and partly because of a trend toward more democratic looking workplaces, the once-rigid boundaries between industrial and office interiors are being ciurred. Shop floors are now being finished to higher standards with better quality lighting, air conditioning and even carpeted floors. In offices with work station layouts now becoming increasingly common, thanks to the proliferation of computer terminal display screens, the "production line look" is making an appearance. .

There are now so many power cables snaking round offices that hiding them away tidily without air conditioning load.

The Department of Employment's new building next to the interfering with flexibility has become a major preoccupation.

Floor and ceiling distribution built in power channels are being introduced.

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# Useful services that help to maintain productivity

## CATERING MACHINES

DAYID CHURCHILL

THE PROVISION of food and drink in offices is an important part of maintaining office productivity. But it can also be very expensive for the company which has to maintain full-time

Thus, as the recession begins to bite even more deeply into life, made its first appearance companies, so an increasing in the U.S. during 1947. number are looking at ways to reduce costs of catering. And this often means switching to automatic vending machines for both hot drinks and quick snacks.

Moreover, the increasing use of flexible working hour systems example, only about a fifth of in offices has made it even more UK installations were in the essential to have a catering hands of specialist operators, facility which can meet the compared with some 90 to 95 differing requirements of staff per cent in the U.S. It was at all times of the day and no surprise, therefore, that con-

part industry: the dispensing of This disenchantment was inhot beverages such as tea, creased by the unreliable nature bot beverages such as tea, creased by the unreliable nature coffee, hot chocolate, or cold of most mechanical coining machines are rising, drinks; snacks, such as choco-operated mechanicals. Sophisticates are stated developments. late bars, potato crisps, and cated developments, such as are estimated to be around other pre-packed items; and bot electronic controls, have en-5,000 a year.

Trade sources estimate that machines.

long way since World War Two. when the modern-style food vending systems were born. It became clear that the real future of the vending industry lay in servicing the needs of the factory and office worker. The hot coffee machine, an almost indispensable facet of American

The vending industry in the The venting industry in the UK has also come a long way from the early days of the 1950s and 1960s, when some "get-rich-quick" operators gave vending a very bad image. By the end of the 1960s, for

sumer satisfaction with vending Vending is essentially a three- machines in the UK was low. hanced the reliability of some

vending machines reached over the last year, representing real growth of about a third since the beginning of the 1970s.

ings. such as hospitals, which measuring drink ingredients are open all night. Foodinto each cup before the products leave the factory, so that the beginning of the 1970s. In terms of volume growth of traditional catering, particu- or cold water. The cup design and sheer machine complexity, the vending industry has come a as vegetables.

## Working hours

With the increase in flexible working hours, overtime and shift working, there is a real need to provide a back-up food and drinks system to the conventional, manual, and frequently expensive cafeteria. In many cases, however, the use of automatic dispensing machines is clearly designed to supplement other catering supplement other catering services, such as the traditional works canteen. But the development of the microwave oven has proved a major step forward in providing hot meals where no

suitable alternative is available. As a result, new equipment now being brought into Britain in increasing quantities to enable the consumer to buy hot hand snacks, hot "fork" snacks, and hot "ring-pull"

One new development in the

all kinds that were sold through vending is in offices and build- cup "systems. This involves pre- coffee machine is today.

for this system has a "lock ridge" which seals the cups into interlocking stacks for simple insertion into the

Oddly enough, although this Uddy enough, although this ingenious idea originated in the U.S., it made little progress until it was introduced into Britain and developed by a number of manufacturers, including the Klix division of Mars. The UK vending industry is, however, still largely dependent on imported machinery to meet its requirements.

It is not only in office catering, however, that vending plays an important part. Many offices now have cigarette vending machines; in total, cigarette sales through yending machines top £100m. Other developments in the

market, now being tried by a few offices, are extensive "automatic shops," selling a wide range of products from tights to flowers, which enable office workers to save time by shopping at work.

Some vending machine operators would go so far as to predict that, by the end of the decade, automatic shopping in drinks sector of the vending offices may become as accepted the total number of drinks of The major growth area in market is the growth of "in- a part of office life as the

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# Demand for more flexibility in office design

## DESIGN

MICHAEL WILTSHIRE

TWENTY YEARS ago, the German concept of burolandschaft - office landscaping was being heralded as a brilliant solution to office design problems. The impact of the formula was considerable, but planners now look for less regimented, more personalised

There is much talk, today, of the word processor and the out-come of rapid developments in business technology. But, for all the progress, many British offices are still appalling places to work in," according to one leading designer. While more than a third of Britain's

A RANGE of Dutch office

contains tables, drawer blocks.

cabinets, filing systems and

conserence units all of dis-

ferent shapes and heights, but

which interlock with complete

precision to form highly

flexible formations, is now available in the UK to help

increase office efficiency by up

to 50 per cent," according to

systems (urniture," which

seem a very long way off.

The introduction of new technology is often a striking contrast to the uneconomic interior design of many UK offices where, it is claimed, 30 to 40 per cent of space is frequently wasted. Badly designed offices lead

to poor communications, ineffiworkflow and money wasted on rent and rates," comments a spokesman of Space Planning Services (SPS), one than Britain's speculatively of the UK's leading independent planning consultancies.

In Germany and Scandinavia. pendent design consultancies in custom-built office buildings the UK.
have tended to be the rule, but The

the distributors, OEM of

Furniture, the system is claimed to provide every member of staff with a "work

station" that suits perfectly

the workload of its occupant,

his or her function in the

office system, and the need for

a "sense of privacy" and in-

dependence," so essential for

a contented staff. The distri-

Called Van Blerk Systems

employed them," comments Mr. Roger Henderson, managing

director of SPS. While many buildings of the 1950s are now ripe for refurmatch-box-shaped designed offices of the 50s and 60s which, Inefficient design also results he says, are notoriously inin undue stress on management flexible. All this adds up to a and staff who spend as much as considerable challenge to a third of their working lives today's office planners, archin offices.

butors of the system claim

that the advantages of systems

furniture over traditionally

based office configurations

are comprehensive, including

the doubling of a workforce in

the same area, thereby maximising space available; the lowering of energy costs such as healing and lighting.

reduction in time wasted in

tion in staff turnover.

workforce are employed in in Britain, where there was a burolandschaft formula are now offices. the much-discussed rush of speculative office build-obvious — but the system. "office of the future" may yet ing in the 1960s, the outcome of invented by the Schnelle the building boom has "adver- brothers in the late 50s, seemed, sely affected the working lives at the time, to be a revelation of millions of office workers and of the office of the future, comhindered the operational effi- ments Mr. Francis Duffy. a ciency of the companies which partner of Duffy Eley Giffone of integrated components to Worthington (DEGW), of

London. The German offices of the early 60s set the trend with their sense of space and order, bishment, many older buildings carpeting, continuous ceilings, new-style furniture and plants. But, in retrospect, the problem with office landscaping was that a mere package design solution must be wrong - "it cannot be sensitive to variation in organisational form," comto ments Mr. Duffy.

Implicit in bürolandschaft is the idea that all organisations are (or ought to be) the same. with an equal emphasis on communications, lack of hierarchy, flexibility and team spirit. This is obviously false.

says Mr. Duffy.
"Different kinds of business are structured in different ways; they have different technologies and values, and above all, different traditions in accommodating themselves in offices."

## **Variations**

There is a world of difference, he emphasises, between insurance and law, between a sales office and a research establishment. No one type of office layout or even office building shell can accommodate them all. Worse still, the enthusiasm for the bürolandschaft package has led to a vast number of expen-sive and highly inflexible building shells which are far too deep" to be useful.

The fact that these buildings are full of super-flexible furniture must be an increasingly small consolation to their owners, since the labour of maintaining these layouts is now

very apparent, he adds.
With skill and dedication. bilrolandschaft can be controlled: without these resources, densities rise, circulation clogs and the quality of the environ-ment declines. Nothing is more fragile than an open-plan office layout, he suggests. The positive consequences of

the system are less clear but more far reaching—" office land-scaping has tought Europeans the American lesson that office planning should be taken seriously, that planning and talking to the user are vital, that the user is prior to the design bility, he adds.

of the building shell, that buildings can be made to reflect organisational requirements." Certainly, office landscaping

has also stimulated furniture design: manufacturers now see themselves as selling "systems" accommodate all office tasks.

Office work, organisation, building, space management, are all changing-but no single formula, even one so brilliantly conceived as burolandschaft, can possibly cope with the wide diversity of present conditions, let alone those of the future,

says Mr. Duffy.
"To go back to the dumb partitioned offices, to the low level of thinking about office design which was tolerated in Britain in the early 60s and which led to the miserable stock of speculative and custom-built offices which we see around, would be a disaster. We must be able to do better than that." Office Planning Consultants, of London, says that since the

60s, managements have been growing aware of the sheer economics of a streamlined and effective office administrationthat it is as essential to maxi mum profitability as an efficient

production line in a factory.

OPC suggests that the term interior designer" be confused with the "interior decorator." In countries outside the UK, he is accorded the proper title of "interior architect," since the subject extends far beyond the mere consideration of aesthetics.

One of the main problems facing office planners in the 1980's is the integration of new technology within an existing building with all its in-built deficiencies and constraints. Each company has different needs and planning solutions must be individually tailored to meet those requirements.

## Complex problems

Lighting, for example, can pose complex problems where a large proportion of time is spent with VDUs. The introduction of terminals and VDUs into a general office also means special facilities for distributing data cables.

Today's requirements will almost certainly not be toshould be capable of being changed readily and inexpensively, says Mr. Henderson of SPS. The one certainty about the future is its unpredicta-

Immediate convenience

Prints which are completely dry and

A general office area at Whitbread London's new headquarters in Luton where Space Planning Services were responsible for planning and interior design. The VDUs are linked to the computer suite in the building and are used by payroll and other accountancy functions.

There is a strong emphasis -Mr. Liley believes that, in nowadays on space management Britain, "the game will eventu--"there is a continuing space ally go to the company that planning process going on after can produce a very simple, a client has moved into a build-flexible and dignified system ing," says Mr. John for integrated we Worthington of DEGW, who has and storage units."

been much impressed by plan-ning concepts in the U.S. "The key role of the space planner is how he transfers his concept of how best to use the space . . one of the things we have set up are training sessions for our clients.

Nowadays, the trend is for 'a of open-plan and cellular design, with a growing demand for "personal space."

"There is a greater recognition of the individuality of the office workers," says Mr. Peter Liley, design director of the Heal group in London. "Everyone needs his or her own defensible territory, a personalised space where he or she can 'see' an imaginary line on the floor. And anyone who steps over that boundary is a guest, or an intruder. Although the office plan may be quite 'open' each worker's identity is being expressed within the area in which he works."

Although some of the latest office furniture is becoming sophisticated — particu-

for integrated work surfaces

Any office furniture manufacturer wanting to sell in Europe must first consider the increasingly high standards of the lucrative German market, comments Mr. D. G. Davenport. marketing director of the newlyreformed Flexiform company manufacturers of filing and storage systems.

"In Germany, for example. you can't sell a desk that doesn't have soft rounded drawerfronts; no angular corners. Such standards are not true in the UK. yet.

The Italians are wild on design-perhaps a bit 'off' in function—but for visual appearance, they're absolutely stuy-

In Sweden, legislation was established in 1977 whereby the workforce has to become involved in aspects of office planning, through workers' councils. In Britain there is an increasing awareness among the white collar unions not only of the impact of new technology, but of the importance of improve-ments in the office environment



Mr. Roger Henderson. тапаа ing director of Space Planning Services, of London, says that many companies are faced with problems created by over-crowding, inefficient use of space, and the unsatisfactory outcome of stop-gap measures, taken somewhat haphazardly over a period of time. Such firms recognise the need to achieve a longterm solution without jully appreciating the alternative paths which may be open to them, he says.

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The new Océ 4000 system is a major breakthrough in plan printing technology. It offers a first class range of machines. The first class service of an internationalcompany with operations world-wide. And the ultimate in systems for plan printing everywhere. Which means not only the plan printer you need but also the materials you need to guarantee plan printing success - and satisfaction.

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easy to install. In fact you can install them

warm-up time. Switch on and start printing.

With the Oce 4000 system you have con-

stant good print quality. Without interruption.

anywhere – and there is no operational

No waiting. No ventilation equipment.

No obrying unit.

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# Why the Left is gaining ground

MR. RICHARD CRAWSHAW, because they often operate in who appears in the Guinness Book of Records as a longdistance walker and in the House of Commons as a deputy speaker, is by all accounts a of Labour voters. nice man, an active constituency MP and a proven vote-winner. Yet he will almost certainly be dropped as an official Labour candidate in Liverpool at the next general election.

In the 16 years he has held the Liverpool seat of Toxteth, it has changed from a marginal Tory/Labour seat to a safe Labour one which he retained at the last election with a comfortable 22.7 per cent majority. The swing against Labour there. 4t 2.1 per cent, was well below the 5.2 per cent national averese. But even his staunchest supporters say he has "not a car's chance in hell" of being reselected for any of the redefined Liverpool seats to be -tought in the next election.

Similar doubts hang over two of his fellow Labour MPs in Liverpool, Mr. James Dunn at Kirkdale and Mr. Eric Ogden at West Derby, who have also held their seats for 16 years with similarly comfortable majorities at the last election.

The phenomenon is not confined to Liverpool. Following last month's Labour Conference Tote for automatic reselection of parliamentary candidates, Labour Publications and the many hitherto comfortable MPs Militant Tendency, all set aside are beginning to question the their differences to form the nature of parliamentary repre-sentation, to examine their mittee, an umbrella group relationships with their con-hastily convened two weeks stituency parties and to ask before the party's Wembley conwhat on earth is happening to the Labour Party in the conmaximum impact for the Left.

extreme left-wing groups. They over the writing of the election on Trotskyist infiltration in the have entrenched themselves in manifesto; a resolution party. moribund constituency parties, explicitly rejecting any form of

seats which the party cannot hope to wlo, have no Parliamentary representatives and are therefore "unrepresentative"

A closer look suggests that things are not quite so simple. The decisions taken at the last party conference indicate that the Left has greater momentum than the Right. But the extreme Left cannot be said to control or even dominate the party—where it is strong, its strength derives partly from a high degree of activity and organisation, but equally from the fact that most active party members do not object.

More important, they appear to be doing nothing dishonest or unconstitutional—there is nothing to stop the right wing from adopting the same tactics, but they are not doing so.

The Blackpool conference was, for the Left, a triumphant climax to several months of frenetic activity in the constituencles and among the unions, winning support for their resolutions and getting sup-porters sent as delegates to Blackpool. A host of left wing groups, including the long-established Campaign for Labour Party Democracy, the Labour Co-ordinating Commit-tee, Clause IV, the Institute for Workers' Control, Independent Labour Publications and the They did not have things all The first reaction has been a their own way at Blackpool. spate of charges that the Labour They were defeated on the Party is being seized by small. crucial issue of wider control



This is the first of a series of articles on what is happening to the Labour Party. Tomorrow Christian Tyler will discuss how these developments are seen by the trade unions. Articles about individual constituencies will appear in the next few days.

viding for one; and two untheir own newspaper, Militant equivocal resolutions calling for The paper still provides a focal nationalisation of the top 200 monopolies which control 85 per cent of the economy, with compensation paid only on the floors, universities and poly-basis of proven need" (some-technics, with a national circula-times referred to as the mating tion currently estimated at call of the Trotskyist Militant Tendency) were unequivocally thrown out. However they won significant victories against considerable opposition on unliateral nuclear disarmament, ban-ning sales of council houses, withdrawal from the EEC, reselection of MPs, and a partial victory on election of the party

thrown into the limelight a few months earlier by the publica-tion of Lord Underhill's report

The Militants first emerged

point for their activities and is sold at most party gatherings, as well as on streets, shop floors, universities and polyaround 10,000 a week.

Active supporters of Militant (in accordance with Labour Party rules they have no official membership) include a large number of students and Young Socialists, but also a lot of trade unionists — clerical workers, printers, bakers, boilermakers and even local government officers. They make no bones about their political Reacting to their defeat at bones about their political the hands of the Left, right beliefs, which rarely depart wing MPs focused attention on from the writings of Lenin, the emergence of the Militant Marx and Trotsky, whom they Tendency, which had been quote frequently and at length, quote frequently and at length, nor about their aim to make Britain a fully socialist state with the economy, including all international trade, firmly under

workers' control. That is their goal and they the accusations run, and are incomes policy was, although in the early 60s, an offshoot of are extremely reluctant to com-now pushing for real power. carried, somewhat confused by the now defunct Revolutionary promise, often to the Irritation is considered sinister an amendment explicitly pro- Communist Party, and set up of the other Labour left-wingers

What is not generally known,

is the mean campaign that a

minority within the Institute of

Professional Civil Servants has

been waging against such em-

ployment of naval officers. Equally unknown, of course, is

the chicken-livered response of

the Dockyard department to that

As one who served in

reasonably senior managerial post within Devonport Dockyard for four years, may I congratu-

late your reporter, William

Hall (October 21) upon the accuracy and the perceptiveness of his article. The only error that I detected was his state-

ment that "the Port Admiral

has much more say than the general manager." In my ex-

perience that is no longer so.

My abiding impressions of my last four years service in "the yard" are of pride in the

skills, talents and accomplishments of the men and women of

Division 4, and of overwhelming

frustration at the ineptitude of

the generality of the manage-ment and its helplessness in the

face of incompatible directives

it received from the Dockyard department.

(Commander) F. J. Elvy.

Spending on

From Mr. R. Musgrave

Sir,-As secretary of a resi-

dents' association which is try-

ing to prevent a local authority bulldozing some houses, I doubt

that housing is Islington's big-gest problem, as your article claims (October 28). Neither

Islington nor any other local authority "needs" to spend vast

sums on housing. The reason vast sums are involved is that

there is no limit to the amount of other people's money that incompetent do-gooders like

throwing away, and housing just happens to be their cause

Your description of housing as the "permanent slum area

of British politics (Leader Octo-

ber 24), was very apposite. I

feel the main absurdity in this

area, and the cause of so much wasted money, is the attempt to

raise housing to uneconomically high standards. Houses are fre-

quently demolished and re-

placed on the grounds of damp-

ness despite the absence of any proven relationship between

look at their most important

If we scrapped and replaced

ernment is often engaged in a similarly Indicrous operation in

the area of housing.

R. S. Musgrave.

celebre at the moment.

The Old Rectory, Diptford, Devon.

housing

However they admit quite cheerfully that they are not going to succeed tomorrow, in insist the change must and will active in Liverpool, London and come about by democratic means, largely due to an "inevitable" collapse of the capitalist system. Further many training a strong presence in at least 60. They are particularly active in Liverpool, London and Brighton; have around 50 full-time paid workers and a slightly smaller number of capitalist system. of them say that a socialist Britain could not survive if the rest of the industrialised West remained capitalist. It would either be defeated or become

How then, with so little to promise in the way of concrete party officials are. results in the immediate future, do they manage to attract and channel so much enthusiasm. dedication and hard work to and in the Labour Party? Peter Taaffe, editor of Militant since 1964, estimates the number of active Militant supporters in Britain at 2,000, with many more less-actively involved

with whom, for the moment, Militarits and many nonthey are content to co-operate. Militant party members dismiss ense right-wing claims that they "control" 100 constituency parties, but they do butions to the paper's "fighting fund" average around £2,000 a week and they are reported to have raised £600 in one day at the Blackpool conference. Stalinist which in their view, amounts to almost the same Although no MP is an active

> In some areas, the Militants have directed their main efforts to getting supporters elected to local government councils and committees. They have sucextent in Islington, Hackney, Hillingdon, Brent and Lewis-

The reason for Militant's been exaggerated.

success is partly that they are the group most actively involved at grass-roots level within the party as a whole. They are of counter-reaction from the regular attenders of party meetregular attenders of party meetregular and hold special meetings
Campaign for Labour Victory. for Militant readers and sellers. They're a breath of fresh air." according to a Liverpool coun-cillor, a middle-aged member of the old unionist Left who welcomes Militant while dis-

agreeing strongly with some of Perhaps a greater part of the appeal of the Militants lies in widespread disillusion within widespread disillusion within the party over the Wilson and Callaghan Governments—their alleged failure even when they had strong Parliamentary majorities to implement Labour policies on health, social ser-vices, race relations and com-urchensive education, and above prehensive education, and above all, over the 5 per cent pay policy introduced in the last year of the Labour Government. In this climate, calls for tighter constituency control over MPs, particularly over the former Ministers of these Governments, are bound to flourish.

With the party in opposition and no prospect yet of an early election, there is little real pres-sure on Right and Left to knuckle down in the interests. of party solidarity. Moreover the Left, though on the upswing, is still so far from attaining its goals that the many groups which make up the present broad Left coalition are under little pressure to clarify their

supporter, a relatively small but not insignificant differences. The active Left in the party growing number of local governdraws together a wide range of ment councillors, union and trends and traditions—the old unionist Left, the "new" Left, the campaigners for nuclear disarmament, some Tribunites (many of them, considered quite radical 10 years ago, are now ceeded in the London borough fairly centrist) the Trotskyists. of Lambeth and to a lesser Within this broad group, the Militants have undoubtedly played an active part but their importance and influence has

Their main effect so far has been to shake the party up a bit. There are already signs

But even on the Left, the Militants remain somewhat isolated. They are perhaps the Mormons of the Labour Party. "nice, terribly sincere" according to one London left-winger, "but a bit boring, the wrong class for some people and, you know, a bit odd." The Militants themselves concede that they do not have broad electoral appeal. Although Militants stood for the party in three seats at the last election, none of these was winnable and their chances of picking up more than one or two winnable seats at the next election are

They associate themselves to some extent with active leftwingers in the Parliamentary Party, such as Dennis Skinner. Tony Benn, Eric Heffer and Michael Meacher, inviting them to speak at meetings or write for Militant. Despite a certain cynicism about MPs, they would probably find Mr. Benn less unacceptable as leader than any other candidate: But they have few illusions about the gap between them and the rest of the Left and know that when the time comes to shake hands, they may be thanked for their hard work and then unceremoniously set aside as the others race off to grab the

party's centre.

The MPs, for their part, are careful to draw certain distinctions. Mr. Meacher, MP for Oldham West and one of the most active left-wingers, most active left-wingers, probably speaks for many on the Parliamentary Left when he says "I don't believe socialism means nationalisation. The world has changed since Mark. To talk of nationalising the top 200 companies is ludicrous and if Tony Benn were leader, it wouldn't happen."

## Letters to the Editor

## Europe's steel imports

From Mr. F. Gillett. afraid, becoming the popular myth: that the steel industries of the developing world are a main factor in the EEC's prob-

lem. This is not so. When the German or French steelmakers complain that imports take 30 per cent to 40 per cent of their respective home markets, they are talking mainly about each other's exports (and the exports of other EEC partners). Imports from third world

accounts for only about 8 per not in the long term, be in cent of the total 110m-tonne their interest. steel consumption in the EEC market. Of these imports, about two-fifths come from other Western European countries, such as Austria, Spain and Sweden; another quarter comes from the USSR and Eastern Europe; and most of the rest comes from Japan (mainly) and Australia, Canada and South Africa. The rising steel industries of countries like Brazil, Mexico and South Korea are supplying only about 3 per cent of EEC's imports from third world countries and that is about one-quarter of 1 per cent of EEC's steel con-

The principal effect of steel imports from outside the EEC has been to upset prices on the EEC market from time to time When the market is sensitive — as it normally is these days — news of only a few thousand tonnes of East European steel on offer at low prices can start buyers looking for fresh rebates off the prices of their main EEC suppliers. There are bilateral agreements between EEC and third world countries which are designed to limit this destabilisproving entirely successful. Imcountries are, in any case, not

the EEC market. On the export side the developing countries, together with the Communist bloc, account for over 50 per cent of EEC's steel exports, and this proportion has tended in grow during the 1970s. If the historical trend continues. and a study of the situation suggests that it will, then the rising steel production of newly industrialising countries will barely keep pace with their rising steel consumption. Their steel imports will therefore tend to grow, rather than decline, at least for the next ten years.

the cause of the fragile state of

First things first: the EEC steel industry has to put its own house in order. It has also, like the Japanese industry, to learn to live with a protectionist U.S. Rising sicel production in 'be developing world is not yet a major problem for the EEC. F. R. Gillett.

Timber Crest, Blakes Road. Wargrare-on-Thames, Berks.

## **Overdraft** facilities

From Mr. P. Radeliffe Sir.—I was interested to read earlier power take-off system, in any way justify their capital Abthony Harns's article (October 24) titled "Farce on Black report was prepared, the estimated range was 5p to 8p/kW. Cutler rises in defence of the Durham.

with most of which he wrote, hr and there is every prospect employment of naval officers in treasurers and

The banks allow industrial

able opportunities available to John Laing Construction. increase its value to the benefit Page Street, Steel imported into the EEC of the shareholders: ieopardis- N.W.7. third world countries ing relations with the bank may

> I speak not only for myself but also for a number of other treasurers of major componies in this country who have neither unusually "formidable hank managers" nor "wet managine directors" but who understand the wider implica-". dirt-briton" tog oh bre enoit thereby helping to spoid the need for banks to raise their hase rates to counteract these manageres and adding further to industry's already heavy

P I I Radeliffe Michaelmas Cottage. Streetly End.

## Codalming was first!

From Councillor B. Souter Sir,-J. E. Harris (October 30) will doubtless be pleased to hear that Godalming is indeed to celebrate its electrical centenary in September, 1981. Plans are well advanced in conjunction with the Southern Electricity Board and the Elec-tricity Council for a week of celebrations from September 19 to 26. There will be both local and national events and Mr. Harris and other interested parties will be most welcome to

attend.
B. R. Souter (Councillor), Godalming Electricity Centenary Celebrations Committee. Charterhouse, Godalming, Surrey.

the sea From the Chief Engineer, Civil Engineering Division

I would like to take him up on of reducing this when the cur- the Royal Dockyards, he has his point concerning corporate rent wide tank testing on spines my wholehearted support. "round-trip- has been completed.

Sir, - Your editorial, "An companies significant freedom to breakthroughs: a completely open crisis in steel." (October finance their working capital sealed power take-off system 29) has repeated what is, I am requirements through flexible based on gyroscopically afraid, becoming the popular overdraft facilities. In these mounted flywheels and, an overdraft facilities. In these mounted flywheels and, an imagination could be described particularly difficult times, with ability to generate synchronous as a qualified and competent little sign of recovery in the AC suitable for direct connecprofessional weapons engineer. immediate future, it is impor- tion to the grid, plus a great tant that the banks and industry reduction in the length of cable have mutual trust and confi- involved in such connections. dence in each other and that We would point out that the the facilities made available independent consulting engineer

are not abused. By abused I appointed by the Department of refer in particular to "round- Energy has produced a confi-It may be argued that it is disagree with the figures we the responsibility of a company produced. countries have played only a to take advantage of all reason- F. S. Nundy, minor part in the EEC steel able opportunities available to John Laing (

moneys

Cambridgeshire.

# Power from

John Laing Construction

Sir.—We refer to the article of October 27 on the subject of of October 27 on the subject of apprehension if he believes that proven relationship between wages and salaries in Devon-dampness and health. Houses williams quoted figures for the cost of power generated as contrary, they are among the replaced without bothering to Williams are in fact for an in productivity being achieved

The dramatic reduction in

costs was mainly due to three

dential report which does not

# Uncollectable

From the Managing Director,

Sir,—Now the Committee of Public Accounts has identified a likely loss of more than £2bn in tax evasion (October 30), an independent committee should investigate the wisdom of trying to collect this money. Tax evaders win little sym-

pathy among most honest tax-payers and the fairness of collection is beyond question. Would taking this money out of the economy, however, be socially desirable? This finance will be revolving in the private sector, helping to sustain it and providing vital employment. If Government collects and does not plough this tax back into the private sector, serious damage could be done to an

already hard-hit area.

As much of the money passes privately in small amounts between individuals, tax collection is nearly impossible in most

The means of attempted enforcement—a substantial increase in the number of tax inspectors-would not only add to the cost of the civil service. but could lead to methods of investigation unacceptable to all but the extremes in our society.

Dennis J. Fowle, Tax File. 4 Valentine Place, SE1.

## Dockyard's progress

From Commander F. Elvy, Rn (Retd.)
Sir.-While I admire Mr.

Cutler's heartwarmingly loyal defence of the Royal Navy and the Dockyards (October 27) I must dispute his facts. He is certainly under a mis-

20p/kW.hr for Ducks and highest in the Plymouth area. 30p/kW.hr for Sir Christopher
Cockerell's rafts. We cannot refitting complex to which he their basic structure.

speak for Sir Christopher, but refers and the only slightly

If we scrapped and replaced having worked in close associa- older frigate complex, with its all cars more than two years tion with Stephen Salter for the three covered graving docks, old, then the amount that would last two years on the Edin-provide Devonport Dockyard "need" to be spent on cars burgh-Scopa-Laing wave energy with splendid modern facilities, would be astronomic. Local govdevice, we can speak for Ducks. It is seriously to be doubted ermment is often engaged in a The figures quoted by Elaine however, whether the increases

UK: Union leaders and senior shop stewards at BL meet in Covenity to assess support for proposed strike action on pay. One-day strike by National Union of Seamen over Cunard only know of one member of the Agricultural workers' Royal Corps of Naval Construc-

tors (now incorporating the Trustee Savings Bank, as member of Visa International, former members of Royal Naval Engineering Service) who by any stretch of the now issuing its own Visa sterling travellers cheques.

British Airways offering halfprice rates on Concorde flights to and from the U.S. for members of families accompanying a full-fare paying passenger.

## Today's Events

Pensioners' £1 Awayday to Arvid Johanson, Norway's newly-Anywhere day return rail ticket appointed Minister of Petroleum comes into operation for an ex-and Energy. Minister for Arts, gives Lord Alport Lecture, City University, Northampton Square, E.C.1, 6.15

Overseas: European Parliament in plenary session to discuss 1981 Community Budget, Luxem-

Mr. David Howell, UK Energy

perimental period.

Mr. Norman St. John Stevas, ference on Investment in Minister for Arts, gives Lord Malaysia begins in Kuala

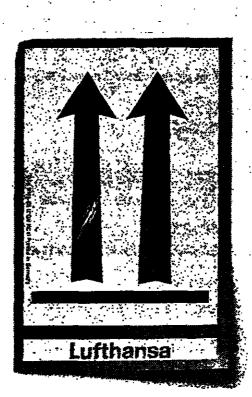
Trial of Mr. Edgar Tekere, Zimbabwe Cabinet Minister, accused with seven bodyguards of murdering a white farmer.

Italian companies to pay 1 per cent less from to-day for money borrowed to finance export Secretary, in Oslo for two-day borrowed talks on North Sea Oil with Mr. operations.

PARLIAMENTARY BUSINESS House of Commons: Motion on EEC document on aids for milk and pig production. Motion on the National Dock Labour Board (Increase of Loans Limit) Order. Motions relating to Consumer Credit (Advertisements) and (Quotations) (Amendment)

House of Lords: Broadcasting Bill. report. OFFICIAL STATISTICS

Building Society house prices and mortgage statistics (third COMPANY MEETINGS See Week's Financial Diary on Page 25.



Our airfreight business continues to go up because our damage-quota continues to stay down.

# Dunlop Zimbabwe offer for sale

BY OUR SALISBURY CORRESPONDENT

The ZimS9m (£5.8m) offer for sale this week by Dunion Zimbabwe is by far the biggest in the history of the Zimbabe Stock Exchange and the second public issue since independence in April this year.

The group's British parent. Dunlop Holdings is offering to sell 5m of its shares-20.8 per cent of the issued capital of 24m shares—at 180 cents each. The issuing house is Standard Merchant Bank, a subsidiary of the Standard Chartered Bank.

DZ is certainly not going public because it needs the cash as its balance sheet position in mid-1980 shows net current assets in excess of \$7.4m (£4.8m) and net assets of more than \$19m (£12.3m).

The purpose of the issue Dunlop says is to enable the Zimbabwe public to identify more closely with Dunlop Zimbabwe and to obtain a listing for the company's shares on the Zimbabwe Stock Exchange.

1,300 employees with the group ing, the manufacture of wood twice subscribed as the terms planning to hold 900,000 shares flooring, furniture and sports of the offer are extremely (about 3.75 per cent of the goods, fire protection systems attractive under current market equity) in trust for employees, and property. This means that after the issue

CAMPARI INTERNATIONAL (Inisure,

CAMPARI INTERNATIONAL (Inisure, camping and bosting adupment group)
—Results for year to May 31, 1980 reported on October 7. Shareholders' funds (8.05m (£7.75m); cash and bank balances (£7.912 (£212.814); Ioans (£800,000; overdrafts (£23m (£7.65m). The charman says he is looking at the current year with conservative optimism. Meeting, Campari House, Steples Corner, NC, November 17, st noon.

AMBER DAY HOLDINGS (clothing

manufacturor and retailer)—Results for the year to May 3, 1980, announced Septembor 24. Shareholders' funds

the year to May 3, 1980, announced Septembor 24. Shareholders' funds £5 27m (£4.32m), bank and cash balances £514,000 (£118,000), stocks £5 2m (£5.2m). Moeting: Churchill Hotel. Portman Square, WI, November

18. noon.

LUNUVA (CEYLON) TEA AND
RUBBER ESTATES — Interim dividend
6p (5p—total 12p) for 1980, Revenue
for non months to September 30,
£124,268 (£92,500). Tax £43,905
£237,342). Earning per £1 stock 9.41p
£460). Ultimate holding company is
Harrisons and Crosfield.

SCOTT'S RESTAURANT - Taxable

profit for half year to June 30, 1980. £29,249 (£65,477). Turnover £1.1m £230,637). Tax £18,000 (£34,000).

S. LYLES (carpet spinner and dyer)—
Results for the year to end-June, 1980, announced October 1. Shareholders' funds £3.04m (£2.99m); bank overdraft £908.695 (£1.25m); cesh in hand £2.12m (£1.77m). Historical pre-tax profit of £592.000 (£963.000) reduced to £341.000 (£560.000) on CCA besis. Meeting, Ossett, November £7, noon.

ATLANTIC ASSETS TRUST—Results for the year to June 30, 1980,

ATTANTIC ASSETS TROST—RESULTS for the year to June 30, 1980, announced July 16, Bank balances [161,000 (£1-29m), Chairman confident about the future performance of the company, Meeting, Caledonian Hotel, Edinburgh, November 20, 12-15 pm.

Edinburgh, November 20, 12-15 pm.
TWINLOCK (office equipment)—Sales
for 26 weeks to August 29, 1880.
£14.95m (£14.27m); pre-tax loss
£339,000 (£241,000) after interest
£757,000 (£716,000). After tax £222,000

issue is therefore political rather over \$20m (£13m). RESULTS AND ACCOUNTS IN BRIEF

## **BOARD MEETINGS**

The following companies have notified dates of Board meetings to the Stock Exchange. Such meetings are usually hold for the purpose of considering dividends. Official indications are not available as to whether dividends are interims or finals and the sub-divisions shown below are beand mainly on last year's timetable.

TODAY

Interims-Graig Shipping, P. Panto, opner. Finals—Borry Trust, Majedia Invest-**FUTURE DATES** 

Continental and Industrial Tat. Nov. 4 De Vero Hotels & Restaurants Nov. 7

than financial.

The group has a monopoly as sole manufacturer of tyres and tubes in Zimbabwe protected by stringent import controls. In addition during the UDI sanctions period, Dunlop which was cut off from its parent, and In addition it will enable unable to repatriate profits and Dunlop to establish a share dividends, used blocked funds participation scheme for its to diversify into light engineering, the manufacture of wood

These diversified activities The basic motivation for the over last year amounting to just

loss £134,000 (£147,000). Numbers

loss £134,000 (£147,000). Numbers amployed were reduced by 10 per cent: the level of capital employed was reduced and stocks were cut back by £300,000 in the period. Since start of second half, Shannon Corner, principal invastment property, was sold for £1.9m. This produced £350,000 surplus over book value and proceeds used to reduce overall borrowings. Company's shares are traded by M. J. H. Nightingale and Company.

M. J. H. Nightingale and Company.

BEN BAILEY CONSTRUCTION—
Results for year ended June 30, 1980, reported September 25. Shareholders' funds £1.64m (£1.48m); mortgage loans £276,428 (£322,652); bank advances £443,112 (£383,484). Chairman says company may receive a check in the steady growth of profitability of the past lew years. Meeting, Doncaster, Decomber 9, noon.

December 9. noon.

DENTSPLY (dental and medical supplies and equipment; ultimate holding company is Dentsply International Inc.)—Turnover for lirst helf of 1980, £10.4m (£10.39m). Trading profit £132,000 (£128.000). Exchange gains £102,000 (£128.000). Deduct interest less other income £243.000 (£531,000). After relocation and reorganisation of head office and Welton factory expenses of £409,000 (nii). loss attributable £418.000 (profit £101,000).

JAMES SCOTT ENGINEERING GROUP

6418.000 (profit £101,000).

JAMES SCOTT ENGINEERING GROUP (subsidiary of William Press and Son)
—Turnover for half year to June 30, 1980, £28.8m (£20.3m), Pre-tax profit £1,248.000 (loss £75.000). Earnings per shere 20.3p (1.7p). Dividends have been paid on the 4.55 per cent first preference shares to January 31, 1978, only and on 4.55 per cent second preference shares to January 31, 1978, only. In view of the continuing deficiency on the company's revenue reservos, no further payments have been made.

LEUMI INTERNATIONAL INVESTMENTS N.V.

(incorporated under the Commercial Code of the Netherlands Antilles)

U. S. \$20,000,000 7 PER CENT GUARANTEED CONVERTIBLE BONDS 1987

U. S. \$20,000,000

**GUARANTEED FLOATING RATE NOTES "A" 1987** 

Extendible at the Holder's option to 1990 to be issued on 20th August 1980 bearing interest

at 1% per annum above the London Interbank Offered Rate for six month Eurodollar

deposits, payable semi-annually.

U. S. \$20,000,000

**GUARANTEED FLOATING RATE NOTES "B" 1987** 

Extendible at the Holder's option to 1990 to be issued on 1st October 1980 bearing Interest at 🖟 per annum above the London interbank Offered Rate for three month Eurodolian deposits, payable quarterly.

U. S. \$20,000,000 **GUARANTEED FLOATING RATE NOTES "C" 1987** Extendible at the Holder's option to 1990 to be issued on 5th November 1980 bearing interest at 2% per annum above the London Interbank Offered Rate for six month Euro deposits, payable semi-annually.

> All unconditionally and irrevocably guaranteed as to payment of principal, premium (if any) and interest by

BANK LEUMI LE-ISRAEL B.M

Issue price of the Convertible Bonds - 100 per cent

Application has been made to the Council of The Stock Exchange for the Convertible Bonds and the Notes constituting the above issues to be admitted to the Official List.

Particulars of the Convertible Bonds and the Notes are available in the Extel Statistical Service and may be obtained during usual business hours up to and including

5th November 1980 from the following branches of

BANK LEUMI (U.K.) LIMITED 4-7 Woodstock Street, London W1A 2AF or Swan House, 34-35 Queen Street, London EC4P4BT -

Issue price of the Notes

18th August, 1980

- 100 per cent

Although profits stagnated during the period when the Zimbabwe economy suffered from the escalating war and economic recession, the offer for sale prospectus forecasts a 30 per cent rise in after tax profits this year and a further 20 per cent increase next year.

Allied London Properties ..... Nov.

Messina (Transveal) Devipmt. Nov. 27

Rush and Tompkins .....

Samuel Properties .....

Despite its size, the Dunlop

The average dividend yield almost 25 per cent of the capital account for some 15 per cent of obtainable on good quality will be held inside Zimbabwe. turnover and profits, with turn-industrials on the ZSE is currently 4.5 per cent (net of tax) but Dunlop is coming in on an too.

income in future. Residential property sales continue to decline. Only seven properties were sold, compared with ten last time. No new properties have been purchased, but several offers are currently under consideration. It is envisaged that the increase in dividends, in line with past years, will be maintained.

NEW SYLHET HOLDINGS (Lee

NEW SYLHET HOLDINGS (see estates)—No dividend for year (7p not). Turnover for 1979 £228,101 (2311,557). Operating profit £8,302 (£85,727), after depreciation £19,590 (£18,481), exchange loss £1,047 (£8,224), trading loss £22,335 (profit £39,042). After adding investment income £7,044 (£7,341) and daducing interest £3,596 (£1,395), pre-tay loss £8,887 (£44,988). Tax crodit £3,520 (£38,331 charge). Loss per £1 shars 8,27p (profit 3,2p).

A.D. INTERNATIONAL (subsidiary of

A.D. INTERNATIONAL (subsidiary of Denuply) International Inc.)—Turnover for half year to June 30, 1980, £8.16m (£5.02m). Trading profit £133,000 (£176,000). "After exchange gains £42,000 (£57,000). interest payable, less other income, £252,000 (£188,000) and relocation of head office expenses £240,000 (nrl), attributable loss was £327,000 (profit £55,000).

PENGKALEN (tin mining)—Estimated profit before tax and exchange adjustments for year ended September 30. 1980, £71,000 (£331,727). Net interim of 1p and second interim 1.5p already

COMMERCIAL PROPERTIES (privately-

deliciency of the company's revenue reservos, no further payments have been made.

MUNICIPAL PROPERTIES—G ross trincome for half year to June 30, 1980 (1984,618 (1797,663), presented for half year to June 30, 1980 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (1984,618 (198

## dividend, one and a half times covered by earnings of 18 cents in the year ending December In addition ,the earnings and dividend forecast look to be

offer yield of 6.7 per cent with

the group forecasting a 12 cents

extremely conservative. In the nine months to September this year Dunlop earned 12.5 cents a share and is expected to carn at least 17 cents a share for the full year to December 1980 as against the profit forecast of 18 cents a share for 1981.

This means that the dividend is likely to be modestly higher than the 12 cents being forecast and the yield is then even more

The Zimbabwe industrial share market has moved up almost 30 per cent since the budget in July mainly due to the acute shortage of scrip in the market of extremely high domestic liquidity.

Accordingly, the Dunlop issue is likely to be very well issue is expected to be at least received and the consensus view twice subscribed as the terms is that when the shares are first listed on November 24, they will open at a premium of around 15 per cent. If this does happen then other multinationals—the Turner and Newall group is named as one obvious possibility -are likely to take the plunge

## Wettern Bros. passes interim

A pre-tax loss of £34,800 for the first half of 1980 is reported by Wettern Brothers. This compares with a deficit of £117,300 last time which included an excep-

Interest charges climbed from £47,000 to £113,800 reflecting the group's investment programme and the high cost of borrowing. The directors are omitting the interim dividend in view of the current and likely future trend in the group's activities, which cover construction materials, distribution and manufacturing. An intensive overhaul of operations is being undertaken to restore profitability and dividend payments.

Last time an interim of 2.0671p was followed by a final Profits for the year totalled £67.000 (£291.000). £5.72m in the half year. There

## **GUS** cautious on profits

ENGLISH AND INTERNATIONAL TRUST—Gross income for helf year to October 5, 1980 £840,000 £632,600). Attributable £330,500 £308,500), after fax £229,400 £187,600). Interim dividend 1.5p (same). Net asset value 1574.p (1274.p as at April 5, 1990). We regret that the headline on the GUS story in Saturday's paper, indicating that profits were "well ahead" in the first five months of the current year, was misleading. As the text made clear, in fact profits have only been running near to the corresponding level last year.

## FT Share Information

The following securities have een added to the Share in the Financial Times Thomas Nationwide Transport (Section: Industrials). Westfort Petroleum (Oil and Gas).

Oct. 31 Price 252 281 221 241 125 141 282 142 251 220 108 60 63.5 31 68 High Low 252 203 282 217 221 203 244 200 137 117 141 282 237 190 132 361 208 248 300 123 75 58 68 53.2 40 23.2 71,7 58.7 71,7 58.7 71,7 58.7 Banco Bilbao .....
Banco Central ...
Banco Exterior ...
Banco Hispano ...
Banco Ind. Cat. ...
Banco Santander...
Banco Virguijo....
Banco Virguijo....
Banco Virguijo....
Banco Virguijo....
Banco Zaragoza ...
Dragados ......
Espanola Zinc ...
Fecsa ........ Iberduero
Petroleos .
Petroliber
Sogelisa .
Telelonice 113 85

DIAMONDS FOR INVESTMENT Diamond Selection Lts. offer loote-cut and polished diamonds for investment. The following is a cross section of prices from their range as at 1st October, 1980: Based on \$ rate 2.18

DIAMOND SELECTION LIMITED Petersham Hosse, 57a Hatton Garden London EC1N 8JD. Tel: 01-405 8045

NOTICE TO HOLDERS OF **MATSUSHITA ELECTRIC** INDUSTRIAL CO., LTD. shita Denki Sangye Kabushiki K<u>aisha)</u> 62.5 CONVERTIBLE DEBENTURES DUE NOVEMBER 20, 1990

Pursuant to Section 3.05 of this Company's Indenture dated as of November 20, 1976 under which the above Debentures were source outlier is hereby given as follows:

1, On September 1, 1980, the Board of Directors of the Company resolved to make a free distribution of shares of the Company's Common Scock to shareholders of record as of November 20, 1980 in Japan (November 19 in New York City), at the rate of 1 now share for each 10 shares held.

2. Accordingly, the conversion price at which the above-mentioned Debentures may be converted into shares of Common Sock of the Company will be adjusted effective immediately after such record date. The conversion price in effect before such adjusted effective immediately after such record date. The conversion price in effect before such adjusted effective immediately after such record date. The conversion price in effect before such adjusted effective immediately after such record date. The conversion price in effect before such adjusted effective immediately after such adjusted enversion price will be Yen 494-90 per share of Common Stock.

MATSUSHIYA ELEGTRIC

## Sir Gerald Glover joins Amal. Estates

Shareholders at the annual meeting of Amalgamated Estates have approved the agreement for Sir Gerald Glover to subscribe for a total of 500,000 shares-2.79 per cent of the capital-at 17.5p Sir Gerald, who now joins the Board, will provide the company with "further expertise and financial experience.' Charles Rowe, the chairman,

After the meeting, Sir Gerald said he expected to be able to bring new projects to the group, remarking "fortunately my contacts are such that I can arrange finance for them.

He added "we will start small, not more than £1m, but as a year or two goes by I hope we will be up to £10nL"

A former chairman of City of London Real Property and still chairman of Edger Investments, which he beloed build up and which is now owned by Prudential, Sir Gerald added "I do not intend to retire until I am 75. Then I will take up farming."

Property experts suggest his known contacts with British Rail may lead to the company becoming involved in developing some of the surplus railway property. Meantime, managing director

Frank Phillips, who injected his

property interests into the then shell company some three years ago, said he is currently negoago, said ne is currently nego-tiating the possible acquisition of more shops in the Kings Road, Chelsea, where the company already has 18 shops. Sir Gerald is expected to hand

over as chairman of Edger to Mr. David McAlpine in January and become the company's president

## MIDLAND BANK **STATISTICS**

Statistics compiled by Midland Bank show that the amount of new money' raised in the UK by the issue of marketable securities in October was £138.1m, more than twice the total for October 1979 but less than the £207.3m raised last month. So far this year £1.006bn has been raised compared with £845.6m in the corresponding period of 1979.

**BIDS AND DEALS** 

J. A. Franks, chairman, has increased by 565,000 shares to

Murray Clydesdale Investment

Trust—Sun Life Assurance Society now holds 140,000 B

ordinary shares-7.63 per cent of

Yorkgreen Investments —

Energy Finance and General

Trust Holdings has a beneficial interest in 345,000 ordinary (5.3

Arrow Chemicals - J. K.

Farrow, director, has disposed of

100,000 ordinary at (beneficial).

STANDARD LIFE

BUYS 6.1% OF

ROHAN GROUP

Standard Life Assurance has purchased 350,000 shares—6.1 per

cent—of the Rohan Group at 185p per share. Rohan, based in

Dublin, trades as an industrial

estate developer and building

Of the total, 270,000 shares

were purchased from Industrial

Credit Company thereby reduc-ing that company's holding, from

15.4 per cent to 10.6 per cent. ICC has notified Rohan that it pro-

poses to retain this holding as a long-term investment.

2,719,655 (28.03 per cent).

that class.

per cent).

# Rival bid planned for Tower

men are planning a rival bid to per cent). Glass Glover Group—FS Assurtake over the Tower Company which changed hands in a £16m ance Trustees are the beneficial holders of 315,000 ordinary (5.6 deal. And they have threatened to call in the Monopolies Commission if they are refused Sunlight Service Group-The non beneficial interest of Mr.

another chance to make a bid. This was revealed by Blackpool estate agent, Mr. Owen Oyston, who is acting for the consortium. He said the recent announcement that Thorn-Emi, which

ment owns the Tower Company, had sold it as part of a deal with Trusthouse Forte and had bit the businessmen 'like a bolt out of the blue."

"The sale must not be allowed to go through," said Mr. Oyston. "Le is a disgrace that important parts of the Blackpool tourist industry, of vital importance to the local economy, should be bought and sold through financial dealings between London-based

"It is surely in the best interests of Blackpool that important local industries should, where possible remain under the control of local people." In a statement, Mr. Oyston said: "I wish to stress that we

are ready and willing to com-mence negotiations with Thorn-EMI as a matter of urgency."

The consortium will be meeting in the next few days in the hope that the deal is not yet legally final and that they can reopen negotiations.

## METAL BOX

Risdon Corporation, a U.S. subsidiary of Metal Box, has purchased Metalurgica Bassan of Brazil a producer of metal com The acquisition was for an undisclosed amount of cash.

## SHARE STAKES

William Press and Son—Colguy Holdings has acquired 1.2m ordinary making total 9.97m (8.339 per cent).
Slough Estates — Kuwait
Investment has acquired an additional 157,000 ordinary shares

making as at October 13 7,229,500 (5.12 per cent).

Helene of London—Mr. E. M.
Passes has sold 500,000 shares.

nearly 40 per cent of his holding. Sunlight Service Group— Throgmorton Trust has acquired a further bolding of 170,000

Industrial Bank of Japan

Finance Company N.V.

U.S. \$50,000,000 Guaranteed Floating Rate

Notes due November 1982

For the six months

1st November, 1980 to 1st May, 1981

In accordance with the provisions of the Note.

notice is hereby given that the rate of interest has been fixed at 15) per cent, and that the interest psyable on the relevant interest payment date,

1st May, 1981 against Coupon No. 7 will be U.S. \$76.05

By: Morgan Guaranty Trust Company of New York, London Agent Bank.

THE SCOTTISH AGRICULTURAL SECURITIES

**CORPORATION LIMITED** 

INTERIM STATEMENT

FOR SHAREHOLDERS

During the half-year to 30th September 1980, £451,000 of Heritable Loans were completed. At 30th September 1980, further Loans totalling £175,000 had been approved by the Directors and awaited completion. The high level of Interest

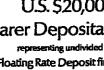
now seeing a greater volume of applications.

Reductions totalling £406,380 were made in the principal amounts of Loans during the half-year.

of which £219,832 represented capital repayments as provided for in the Loan Agreements and £186,548 special reductions and repayments. The total amount

of Loans outstanding at 30th September 1980, was

Rates and the general uncertainty of future prospects for agriculture have been reflected in fewer loan applications being received than has been the case for many years. However, with activity in the market for farms increasing, the Corporation are



Sociedad Financiera

evidenced by consecutive three month Certificates of Deposit

Terms and Conditions of the Bearer Depositary Receipts (the "BDRs") that for the three months from 3rd November, 1980 to 3rd February, 1981 the BDRs will carry an interest rate of 15%% per annum. On 3rd February, 1981 interest of U.S. \$39.29 will be due per U.S. \$1,000 BDR and U.S. \$392.92 due per U.S.\$10,000 BDR for Coupon No.6.

3rd November, 1980

27/28 Lov	at Lane London EC3R 8	EB	Te	lephone	01-621	1212
£000°s		Last	Change	Gross	Yield	
capitalisatn	i. Company	price	OR Week	Div (p)	9,0	P/E
2370	Airsprung	41	_	6.7	16.3	3.7
600	Armitage & Rhodes	24	+1	1.4	5.8	9.8
10754	Bardon Hill	176	+1	9.7	5.5	6.6
690	County Cars 10.7% Pf.	89	-2	10.7	15.5	
7308	Deborah Ord	95		5.5	5.8	4.7
4387	Frank Horsell	117		7.9	6.8	37
9390	Frederick Parker	65	_	11.0	15.9	3.0
1682	George Blair	79		3.1	3.9	3.0
2250	Jackson Group	90	+5	6.0	6.7	3.4
16582	James Burrough	120	T5	7.9	5.6	9.8
3111	Robert Jenkins	305	_	31.3	10.3	
3354	Torday	218	+1	15.1	5.9	3.7
2564	Twinlock Ord	12	+14.	_	_	_
2239	Twinlock 15% ULS	82	_	15.0	18.3	_
5798	Unilock Holdings	38	-1	3.0	7.9	5.8
12400	Walter Alexander	98	_	5.7	5.8	5.4
5601	W. S. Yeates	240	-2	12.1	5.0	3.9

FINANCE FOR INDUSTRY TERM DEPOSITS Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross half-yearly. Rates for deposits received not later than 21.11.80:

Deposits to and further information from The Chief Cashier, Finance for industry Limited. 91 Waterloo Road, London SE1 8XP (01-928 7822. Ext. 367). Cheques payable to "Bank of England, aa/c FFL" FFI is the holding company for ICFC

This announcement appears as a matter of record only.

US \$20,000,000

13% Notes 1995

Hill Samuel & Co. Limited

Banque Internationale à Luxembourg S.A.

Banque Nationale de Paris

Bayerische Landesbank Girozentrale

Samuel Montagu & Co. Limited

The above Notes were privately placed

October 1980

هكذامن الأيمل

A GROUP of Blackpool business beneficial owner of 720,000 (7.42 Rohan reducing his holding from men are planning a rival bid to per cent). Purchases through the market accounted for the balance of 5,000 shares.

Rohan also announces the sale 5,000 shares by Mr. Tom-McGeogh, a director, who simultaneously exercised an option to purchase a further 10,000 shares increasing his holding to 28,500

## Ford & Weston acquisition

Ford and Weston Holdings, a private Derby company with a turnover of £25m, has acquired Gibson, Lea & Co., store and shopfitting group of Colwick Nottingham.

Gibson Lea has a turnover of £3m and employs 120 people. The company provides a design and fitting service for joinery work and for the Storebest shop fitting system from Lubeck in

The cost of the acquisition is more than £500,000 and it is expected that Gibson Lea will earn profits of about £200,000 in the coming year.

## THOS. W. WARD

John Lee of Grantham, a member of the Thos. W. Ward group, has sold its textiles and waste-paper business, situated at Grantham, to Harris & Co. of Bristol. The consideration is payable in cash and is not Standard Life also bought material to the Thos. W. Ward 75,000 shares from Mr. John S. group.



Bearer Depositary Receipts

Hoating Rate Deposit finally due 1986

C. A. Cavendes

(incorporated with imused liability in the Republic of Vengausla) Notice is hereby given pursuant to the

European Banking Company Limited (Agent Bank)

## M. J. H. Nightingale & Co. Limited

£000° B		Last	Change	Gross	Yield	
capitalisat	n. Company	price	OR WEEK	Div (p)	*	P/I
2370	Airsprung	41	_	6.7	16.3	3.7
600	Armitage & Rhodes	24	+1	1.4	5.8	9.8
10754	Bardon Hill	176	+1	9.7	5.5	6.6
690	County Cars 10.7% Pf.	89	-2	10.7	15.5	
7308	Deborah Ord	95		5.5	5.8	4.7
4387	Frank Horsell	117		7.9	6.8	37
9390	Frederick Parker	65	_	11.0	15.9	3.0
1682	George Blair	79	_	3.1	3.9	3.0
2250	Jackson Group	90	+5	6.0	6.7	3.4
16582	James Burrough	120	T5	7.9	5.6	9.8
3111	Robert Jenkins	305	_	31.3	10.3	3.0
3354	Torday	218	+1	15.1	<del>5</del> .9	3.7
2564	Twinlock Ord	12	+1%	_	_	_
2239	Twinlock 15% ULS	82	_	15.0	18.3	_
5798	Unilock Holdings	38	-1	3.0	7.9	5.8
12400	Walter Alexander	98	_	5.7	5.8	5.4
5801	W. S. Yeates	240	-2	12.1	5.0	3.9

Terms (years) 3 4 Interest % 13 13 5 13 6 13 13 13 13

**European Economic Community** 

7

## INTERNATIONAL CAPITAL MARKETS

INTERNATIONAL BONDS

# Adopting the art of doing nothing

THE ART of doing nothing is than shorter dated outstanding

This at least was the case in rise on the week. the straight dollar sector where a 22-points downward adjust- the U.S. Federal Reserve might rates during the week, rather gates under control was the than by any generalised pressure to sell.

The D-Mark foreign bond sector suffered, as many foreign holders of such paper decided to sell because of the weakness of the currency while one of the two new issues planned for last week was cancelled. A further issue, initially planned by Dresdner Bank for today, is also likely to meet the same

At least three reasons led institutional investors into a state of near inactivity last week they were prepared to do Friday at 92 in the middle.

the first and major deterrent Canadian Government intends

CREDITS

not easy to practise but in the dollar bonds throughout the Eurobond markets the vast week, the difference being somemajority of institutional and times as large as 175 basis private investors have all points. Last Friday night the adopted this tactic during the six-month Eurodollar rate stood past week or ten days.

The widespread feeling that ment in prices was prompted by tighten rates further in an the sharp rise in U.S. interest effort to bring monetary aggresecond factor at play. The third was the bleak outlook for infla tion in the U.S. Add to that the uncertain outlook of the U.S. election and you had a good recipe for sitting tight and doing nothing. These negative factors were however offset by the strong rise in the value of the U.S. dollar.

Convertible better than straights, though there were some noted casualconvertible 9 per cent bond to 1995 for Ocli, which finished some swapping between Eurosonder swapping between Eurobonds and U.S. Treasury bonds
but not to commit any fresh
funds to the market.

Another victim was the 7½ per convertible for Kay Capital
bonds and U.S. Treasury bonds
cent issue to 1995 for Helmrich which appeared, particularly
but not to commit any fresh
funds to the market.

Payne, which shed about 3 to towards the end of the week,
funds to the market.

10-0% 9.5% D/Mark Secondary **Market Bond Yields** 9.0% 6-month Euro D/Mark

**Interest Rates** 

foreign-owned oil companies operating in Canada. The only new dollar issue launched last week was a \$15m

September 1980

unds to the market. 97-8 points late in the week, to be getting a fair reception. The inverse yield curve was following news that the The FRN sector was active The FRN sector was active. with all recent issues, except deposits were yielding more in some of the subsidiaries of Benson, holding up well. The find buyers, even at lower account for only 16 per cent.

latter was quoted at 977-981, the reason for its relative uppopularity being the very tight terms The Deutsche Mark foreign bond sector was in a miscrable state all week and there are few signs of an early improvement. The weakness of the currency The weakness of the currency nearly 31 per cent and now account for 68.4 per cent of the

October 1989

The only issue launched last week, the 81 per cent private placement for Michelin launched on Monday, was standing at a discount of 2½ points from its indicated price of 99 on Friday.

BY FRANCIS GHILES

Meanwhile, the coupon on DM 150m bond for Venezuela to 1990 was increased by † per cent to 9? per cent and the issue priced at 99. Even then it was quoted at 961.97 by Westdeutsche Landsbank on Friday.

Swiss franc bonds had a quiet week, slipping about t of a point over five trading days. Seven new issues were launched, inincluding a SwFr 100m public issue for Philip Morris which offers the lowest coupon in this sector in two months, 51 per

Figures compiled by Morgan Guaranty show that a total of \$20.6bn worth of Eurobonds were launched during the first 10 months of this year, a 24 per cent increase over the com-parable period last year. But while the volume of dollar denominated bonds increased by sure from abroad proceeds un- new issues, D-Mark bond volume

present fashion for U.S. prime

in its latest borrowing for the

a i per cent margin over prime

which is reduced after four

In this case the prime-based

Among other deals, Pakistan

element is couched in parti

cularly generous terms to attract U.S. regional banks.

is raising \$100m for one year

with a margin of 13 per cent over Libor through Gulf Inter-

national Bank and Morgan

Guaranty. This is a commodity import financing facility with a spread slightly lower than the

14 per cent on the country's

very successful \$200m one-year

financing arranged in August.

rate-based deals, Chile

BY PETER MONTAGNON

## CURRENT INTERNATIONAL BOND ISSUES Offer yield Av. life Lead manager Maturity U.S. DOLLARS #Telefonica Nac. Espana BNP. Dilion Read ţ§OC니 Intl. Fin, NY 9.203 Orion, Bateman Eichler ItKleinwort Benson Fin.BV. 50 5길라 7길 7길 Kleinwort Benson 5.918中 16Toyo Menka Kaisha 1996 7.900 Nikko Secs. (Europe) §Tokya Corp. 70 1995 15 Nomura Eurobe All Nippon Airlines †BBL NV 1990 Nomura Europe 1986 1995 100 15 **CSFB** 5.063·0 §Kay Capital NV 8<u>i-9</u>i Bear Stearns, NM Roths-child, Rothschild AG D-MARKS ‡ESCOM (gteed S.A.) Dresdner Bank 50 1990 tindi. Bank of Finland BHF Bank 8.615 WestLB 9.912 !Venezuela \*\*Michelin Fin, BV 1987 Bayerische Vereinsbank FRENCH FRANCS ‡Westland-Utrecht 1985 14 100 14.000 SWISS FRANCS 10esterreichische Kbk. \*\*Swedish Export Credit 1990 100 Wirtschafts-und Prythk. 6.125 100 100 100 Electric Power Dev. Co. UBS 5.750 §Kabori Yuken 1985 1985 5,250 Credit Suisso \*\*Kabori Yaken 6,000 100 100 Credit Suisse SBC 6,500 5,500 t\*\*ESCOM (gteed S.A.) Philip Morris Intnl. NY 1990 STERLING 1991 8{ 13 13.092 Kieinwort Benson GUILDERS \*Nationale Nederlande 10.051 ABN \*\*Nederlandse Gasunie AmRo Bank 10.250 UNITS OF ACCOUNT 1987 10,207 Kredietbank Intnl. Gp. Nat yet priced, # Finst terms, 11 Registered with U.S. \*\* Placement. † Floating rate note. Securities and Exchange Commission. Minimum, § Convertible. Purchase Fund. ulated on AIBD basis

## U.S. BONDS

## BY DAVID LASCELLES

# Awaiting a discount rate rise

THE SHARP rise in interest the Fed may prefer to wait at pelled to lend at least half an rates last week and the con- least until the end of this week ear to its colleagues at the growth of U.S. money

move, and by how much? Given the turmoil of Wall Street and the hubbub over the election, this is not an easy question to answer. The discount rate is now so

far below the market (2 to 3 per cent) that an immediate increase seems called for. But

U.S. INTEREST RATES (%)

to get the election out of the supply has made an increase in way, and allow the Treasury to central bank, who fear that the U.S. discount rate from its proceed with its \$8bn quarterly another rise in U.S. rates will 11 per cent level a near cer- re-funding, due in three parts, only depress the Deutsche-Mark tainty. The only question is tomorrow and on Wednesday when will the Federal Reserve and Thursday. By Friday it will also have a

new set of money supply figures to help it decide whether the net gain of the last three weeks will last. As for the size of the increase.

the market has already discounted 1 per cent, and there are fears that the Fed may therefore be forced to go for 2 per cent to show that it means business. If it does, short-term rates are bound to go higher, although long rates stabilise in expectation of some improvement further up.

In opting for 2 per cent, the

ear to its colleagues at the Bundesbank, the West German still further.

In the market itself, the Fed has steadily been firming up short-term rates to the 131 per cent mark, an increase of about 2 per cent since early October, in line with the decision it took at its September policy-making meeting to get a tighter grip on the money supply.

However, although the atmosphere of Wall Street is tense. there is still a feeling that the Fed will meet its money supply targets for 1980. M1-A, the basic measure, is comfortably within the growth range. M1-B, the broader measure, is above it but is generally expected to Fed may, however, feel com- level off in the weeks ahead.

# Credit National's cross-Channel bridge

CREDIT NATIONAL of France is raising a £75m credit from a tion of whether the fixed rate renewed concern about the to be fairly fine. group of banks led by Hambros. The object is to provide bridg- market or in domestic sterling, finance their balance of paying finance against the eventual or whether it would be in a ments deficits now that oil issue of a sterling denominated single issue or two separate prices are again moving higher. Eurobond or "buildog " loan on the domestic market.

This unusual approach has life of five years, which seems first 10 months was well down been taken because the bor-rather long for bridging finance, on last year, with the total rower as well as the French Treasury apparently feel that to ensure exemption from \$68.8bn. sterling has appreciated to a French witholding tax. The One point where it is attractive to borrow but interest rates are still too high to enter the fixed rate market.

By raising the bridging finance now, Credit National will be able to convert the proceeds into French francs at a favourable rate of exchange.

If, as the borrower expects, sterling falls on the exchange oil developing countries has markets once interest rates in slowed substantially. During the London turn lower, the horrow-month they raised only \$1.8bn ing would not only be cheaper compared with \$3.7bn in repay but it would also be possible to refinance in sterling the 10-month total to \$17.7bn at a lower fixed rate of interest compared with \$30.4bn in the than is at present obtainable.

DEUTSCHE MARK
STRAIGHTS
AUSTRAIGHTS
AUSTRAIGHTS
AUSTRAIGHTS
AUSTRAIGHTS
AUSTRAIGHTS
AUSTRAIGHTS
AUSTRAIGHTS
BFCE 7% 87 100
BFCE 7% 87 100
CFCA 7% 92 150
CFCA 7% 94 225
CFCA 7% 94 225
CFCA 7% 94 100
CFCA 7% 95 100
CFC

OKS 41, 97

ORIG. City of 24, 95

Osto. City of 57, 50

Solto. City of 57, 50

Finings Lamps 57, 92

Solto. City of 57, 93

Mocat Aliano 54, 93

77agraf Sank 42, 89

150

Australia 5.5 8) Australia 61, 28 Fig. 79, 29 Figliand 5.5 83

land. Rep. et 8's 87

DEUTSCHE MARK

U.S. DOLLAR STRAIGHTS

Still undecided is the quesborrowing will be in the Euro- ability of these countries to ozes.

but it was arranged in this way credit carries a margin over Libor of 1 per cent.

Credit National has told the cing within a year.

Meanwhile, Morgan Guaranty figures for in Orissa state. October once again show that The borrowin the pace of borrowing by non-October last year. This brought same period of 1979.

Carries on

Bid Offer day week Yald

90°, 92°, +0°, -0°, 8.99

87°, 38°, +0°, +0°, 8.75

96°, 96°, +0°, -0°, 8.44

90°, 91°, 0 -0°, 9.24

86°, 87°, +0°, -0°, 9.27

35°, 96°, +0°, -0°, 9.14

FT INTERNATIONAL BOND SERVICE

Bell Canada 104 86 CS CIBC. 134 85 CS .....

Beil Canada 104, 86 CS
CIBC 114, 85 CS
CIBC 114, 85 CS
Federal Dev. 114, 90 CS
Fst. Can. Inv. 10 84 CS
R. 8k. Canada 10 86 CS
Tordom Cpn. 134, 85 CS
M. 8k. Canada 10 86 CS
Tordom Cpn. 134, 85 CS
M. 8k. Canada 10 86 CS
Tordom Cpn. 134, 85 CS
M. 8k. May 94, 90 EUA
SOFTE 84, 89 EUA
U. 8k. Nrwy 94, 90 EUA
Algamane 8k. 104, 87 FI
8k. Mees & H. 10 85 FI
Helineken NV 10 87 FI
Nat. Inv. 8k. 10 87 FI
Nat. Nader 94, 87 FFr 1
CECA 144, 86 FFr 7
Finland 11 84 FFr 1
Renault 94, 85 FFr 1
Solvay et Cie 92, 87 FFr 1
U.G. Mx. Sts. 14 85 FFr 1
Solvay et Cie 92, 87 FFr 1
U.G. Mx. Sts. 14 85 FFr 1
Beneficial Fin. 144, 90 f
RNP 137, 97 C
CECA 134, 86 FFr 1
Beneficial Fin. 144, 90 f
RNP 137, 97 C
CECA 134, 86 FFr 1
Beneficial Fin. 144, 90 f
RNP 137, 97 C
CECA 134, 85 FFr 1
Solvay et Cie 92, 87 FFr 1
U.G. Mx. Sts. 14 85 FFr 1
Beneficial Fin. 144, 90 f
RNP 137, 97 C
CECA 134, 86 C
Fin. for Ind. 142, 88 c
Fin. for Ind. 142, 88 c
Fin. for Ind. 143, 87 c
CECE 84, 91 K0
Sonstrach 84, 90 KD
Swed Ex. Cr. 154, 85 c
Banbbras 84, 90 KD
Swed Ex. Cr. 154, 85 c
Banbras 84, 90 KD
Swed Ex. Cr. 157, 85 c
Eurofima 104, 87 LuxFr 5
Eurofima 105, 87 LuxFr 5
Eurofima 105, 87 LuxFr 5
Eurofima 107, 87 LuxFr 5
EUGATING RATE

FLOATING RATE

Overall activity in the syndi-The syndicated credit has a cated credit market during the

developing country which is moving slowly towards the raising of new finance is India, which has not till now banks participating that it been a significant borrower on hopes to undertake the refinanthe Euromarkets. It is expected been a significant borrower on to raise some \$700m to help provisional finance an aluminium complex

raised falling to \$57.4bn from

The borrowing is being coordinated by BNP with Bank of America, Societe Generale and State Bank of India also acting as lead managers. Terms are not yet set, but since an additional amount of French export finance is also involved and ing for Itaipu Binacional on

\$27, \$34, \$0;
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192 \$32, \$0;
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13.52 -21 13.81 -1 13.84 0 11.92 -01 13.86 +04 13.86 +04 10.07 -04 10.28 -04 10.28 -04 10.45

The figures come amid market, the terms are expected Elsewhere, Yugoslavia had

still by the end of the week adopted such a pricing option not reached agreement with in its latest borrowing for the leading international banks on Banco do Chile. the conditions for its forthcoming Eurocredit, expected to be credit being arranged through about \$300m. Talks between the Banco di Roma, Bank of Tokyo, National Bank of Yugoslavia Marine Midland, Midland Bank and the banks are continuing and Morgan Guaranty. Lenders this week amid apparently con- can choose between a flat \$ tinuing reluctance of Yugo per cent margin over Libor or slavia to accept a margin as high as 14 per cent.

A similar situation prevails years to a per cent. in respect of planned bilateral borrowings by Yugoslavia in Germany and France, where amounts and conditions are still both open. Bankers now view the three sets of discussions, which were originally held separately, as embodying certain degree of inter-

Also still to be decided are conditions for Brazil's borrowsince Indian borrowings do which talks with Citibank con-have a rarity value in the tinue.

OCTOBER 1980

NEW ISSUE

## £20,000,000

All these securities having been sold, this announcement appears as a matter of record only

## **European Coal and Steel Community** ("ECSC")

131/2 % Bonds 1988

Kleinwort, Benson Limited

S.G. Warburg & Co.

Société Générale

Svenska Handelsbanken

Westdeutsche Landesbank Girozentraje

Zentralsparkasse und Kommerzialbank.

Hill Samuel & Co. Limited

Skandinaviska Enskilda Banken

Strauss, Turnbull & Company

Banque Bruxelles Lambert S.A. Banque Nationale de Paris

Citicorp International Bank Limited Creditanstalt-Bankverein

Daiwa Europe N.V.

Kredietbank International Group Kuwait International Investment Co. s.a.k.

Société Générale de Banque S.A.

Wardley

Algemene Bank Nederland N.V.	American Express Bank International Group	Amsterdam-Rotterdam Bank N.V	Banca Commerciale Italiana
Banca del Gottardo	Bank of America International	The Bank of Bermuda	Bank Mees & Hope N.V.
Bankers Trust International	Banque Française di	u Commerce Extérieur	Banque de l'Indochine et de Suez
Banque Internationale à Luxemi	bourg S.A.	Banque de Paris et des Pays-Bas	Banque Worms
Barclays Bank Group	Bayerische Hypotheken- u Aktiengesellsc	and Wechsel-Bank Ba	ayerische Landesbank Girozentrale
Bayerische Vereinsbank Aktiengesellschaft	Berliner Handels-und Frankf	furter Bank James Capel &	Co. Chase Manhattan Limited
Commerzbank County Aktiengeselbschaft Limite		al de France Crédit Lyonnais	Credit Suisse First Boston Limited
Cresvale International Limited	Den Danske Bank	Deutsche Bank Aktiengesellschaft	Dresdner Bank Aktiengesellschaft
First Chicago Gir Limited	rozentrale und Bank der österreici Aktiengesellschaft	hischen Sparkassen G	oldman Sachs International Corp.
Hambros Bank Handelsb	ank N.W. (Overseas) Istitu Limuted	uto Bancario San Paolo di Torino	Kidder, Peabody International Limned
Kjøbenhavns Handelsbank	Kuwait Foreign Trading Con	tracting & Investment Co. (S.A.K.)	Lioyds Bank International Limited
LTCB International N	lanufacturers Hanover Limited	Merrill Lynch International & Co.	Samuel Montagu & Co. Lunited
Morgan Grenfell & Co.	Morgan Guaranty Ltd	Morgan Stanley International	New Japan Securities Europe Limited
The Nikko Securities Co., (Europ	e) Ltd. Nomura Europ	e N.V. Orion Bank	Peterbroeck, Van Campenhout et Cic S.C.S.
Pierson, Heldring & Pierson N.V.	Privatbanken A/S	Salomon Brothers International	J. Henry Schröder Wagg & Co. Limned

Sumitomo Finance International

Smith Barney, Harris Upham & Co.

Yamaichi International (Europe)

Vereins- und Westbank A.G.

Swiss Bank Corporation International International; Samuel Montagu and Co.: Scandinavian Bank: Wood Gundy Societe Generale Strauss Turn-bull; Sumitomo Finance Inter-

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FLOATING RATE

NOTES

Spread

Bid Offer C.dta C.cpn C.yld

Allied Irish St. 5t, 87 0t, 87 198 2/1 10.44 10.68

Bank of Ireland 5t, 89 20t, 97t, 982 2/11 11t, 11.59

Bank of Tokya 5t, 89... 40t, 97t, 982 2/11 11t, 11.59

Barclays O/S Inv. 5 90 0t, 97t, 981 29/11 12t, 12.48

Bilhao Ini. N/V 5t, 90... 0t, 97t, 981 29/11 10.06 10.28

Citicoro O/S F. 83 ... 50t, 97t, 981 29/11 10.06 10.28

Citicoro O/S F. 83 ... 50t, 97t, 981 29/11 10.06 10.28

Citicoro O/S F. 83 ... 50t, 97t, 981 29/11 10.06 10.28

Citicoro O/S F. 81 20 ... 0t, 97t, 981 29/11 11.44 11.57

C. Itoh 5t, 87 ... 0t, 98t, 98t, 18/3 127t, 13.09

Ca-coerative 8t. 6 85... 0t, 98 98t, 18/3 127t, 13.09

Cardithnistall 5t, 91 ... 50t, 98 98t, 18/1 12.06 12.32

CNT 5t, 86 ... 50t, 98 98t, 18/1 11.44 11.64

CRAST 5t, 88 ... 0t, 98t, 98t, 16/4 13t, 13.49

Ind. Bank Japan 5t, 87 0t, 98t, 98t, 16/4 13t, 13.39

Liovds Euralin 8 90 f 0t, 98 98t, 18/1 11.11, 12.60

Misland Intl. Fin. 5 89 0t, 98t, 98t, 13/1 15t, 16.36

LTCB Japan 5t, 86 ... 0t, 98t, 98t, 13/1 12t, 40

Misland Intl. Fin. 5 89 0t, 98t, 98t, 13/1 12t, 40

Midland Intl. Fin. 5 89 0t, 98t, 98t, 13/1 12t, 40

Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

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Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

Nacional, Fin. 6t, 92 0t, 97t, 98 25/12 10t, 11.13

Nacional, Fin. 6t, 98 0t, 98 9t, 98 9

BONDTRADE INDEX AND YIELD Medium term Long term 85,32 (2/4) 71.54 (29/2) FURDBOND TURNOVER Codel Euroclea

1,95R.1 Last week ....... Previous week .. 2.210.B 2.424.9 Other bonds Last week 622,5

\* No information availableprevious day's price. i Only one market maker

supplied a price.

STRAIGHT BONDS: The yield is the yield to redemption of the mid-price: the amount issued is in millions of currency units except for Yen bonds where it is in billions. Change on week= Change over price a week earlier. FLOATING RATE NOTES:

Denominated in dollars unless otherwise indicated. Coupon shown is minimum. C.dte=Date next coupon becomes effective. Spread = Margin above six-month offered rate (three-month; sabove mean rate) for U.S. dollars. C.cpa = The current coupon. C.yld=The current yield.

CONVERTIBLE BONDS: Denominated in dollars unless otherwise indicated. Chg. day = Change on day. Cuv. date = First date for conversion into shares. Cnv. price=Nominal amount of bond per share expressed in currency of share at conversion rate fixed at issue. Prem=Per-centage premium of the current effective price of acquiring shares via the bond over the most recent price of the shares.

The list shows the 200 latest international bonds for which an adequate secondary market exists. The prices over the past week were supplied by: Arab Company for Trading Securities SAK: Kredietbank NV; Credit Commercial de France: Credit Deutsche Bank AG; Westdeutsch-Landesbank Girozentrale: Banque Generale du Luxembourg SA: Banque Internationale Luxembourg; Kredietbank Luxembourg; Algemene Bank Nederland NV: Pierson, Heldring and Pierson: Credit Suisse/Swiss Credit Bank: Union Bank of Switzerland; Akroyd and Smithers: Bankers Trust International: Bondtrade; Credit Commercial de France (Secs.) London; Citicorp Inter-national Bank: Daiwa Europe NV: Deltec Trading Company: Dillon, Read Overseas Corpora-tion; EBC; First Chicago; Goldman Sachs International Corporation; Hambros Bank; 1BJ International; Kidder Peabody International; Merrill Lynch; Morgan Stanley International; Orion Bank: Salomon Brothers national; S. G. Warhurg and Co.;

Wood Gundy. Closing prices on October 31 Companies and Markets

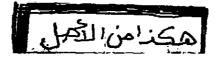
## WORLD STOCK MARKETS

HONG KONG HOLLAND ST CANADA 1980 | High | Low | OCL 31 Oct. 31 High Low-Stock NEW YORK High | Low Stock Stock Oct.:31 Oct. 31 High | Low Stock 1980 Price Fis 85g 43g Gt. Att. Pac. Tea 54g 24 12 Gt. Basina Pet. ... 113g 41 277g Gt. Nthn.Nekocsa 281g 233g 141g Gt. West Financi. 181g 14 Greyhound ... 24 317g 18 Grumman ... 26 203g 124g Guif & Western... 174g 1980 | Oct. | 31 915 115 315 2119 High | Low 46 35 Columbia Gas.....
37 27 Columbia Pict...
2051 1815 Combined Int....
10512 4716 Combistr. Equip
1314 316 Combistr. Equip
2278 1712 Combistr. Equip
4556 3034 Comm. Satellie... Stock 80 62.1/ACF Holding 72.4
85 59.2 Ahold 57.8
86 18.6 AKZO 19.6
829 826.5 ABN 2992
105.6 81.5 AMEV 97.5
70.5 52.6 AMRO 62
286 195.2 Bredero Cert 195.2
106.3 79 Bos Kalis 94.5
68 58 Buehrman-Tet, 62
28.7 21.4 Caland Hidgs 28
285.2 165 Ehewist 153.1
125 Ennis 159.5
76 56 Furo Com Tet 76
48.7 26.3 G st-Brocades 48.7 Stock 2712 AGF Industries 425g
115g AMF 197g
1412 AM Intl 157g
25 ARA 301;
2712 ASA 821;
17 AVX Corp. 571;
341c Abbotts Labs 491;
19 Acme Cleve 25;
2973 Adobe Oil & Gas 54;
30 Actna Life & Gas 351;
15 Ahmanson (H.F.) 191;
525g Air Prod & Chem 491; | 1203 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | 1205 | | 112 | CIG | 178 | 1958 | 3914 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 1518 | 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6212 41 Past Lumber.... 5334 54 3678 1019 1339 93 1058 1936 4318 15 NORWAY 1818 | 135a Easco... Fastern Airliness 81a 165a Eastern Gas & F. 257a 455a Eastman Kodak. 68 1980 Oct. 31 161s 11 | Pac. Tel. 5 Tel | 125; 226s | 131s | Palm Beach | 181z | High | Low SWEDEN 291<sub>2</sub> 167<sub>8</sub> | KKaleer Alum ... 243<sub>8</sub>
501<sub>4</sub> 257<sub>6</sub> | Kaiser Steel ... | 42
551<sub>2</sub> 191<sub>3</sub> | Kaneb Services ... 32
129<sub>8</sub> 65<sub>4</sub> | Kaufman Brd ... 115<sub>6</sub>
291<sub>8</sub> 121<sub>4</sub> | Kay Corp ... 183<sub>4</sub>
437<sub>8</sub> 243<sub>4</sub> | Kellog ... 183<sub>4</sub>
437<sub>8</sub> 243<sub>4</sub> | Kennecott Cpr ... 281<sub>2</sub>
343<sub>6</sub> 211<sub>4</sub> | Kennemetal ... 323<sub>6</sub>
901<sub>4</sub> 551<sub>4</sub> | Kerr-MoGee ... 39
42 | 295<sub>8</sub> | Kinde ... 39
55 373<sub>4</sub> | Kimberley-Cik ... 481<sub>8</sub>
121<sub>8</sub> | 81<sub>8</sub> | Kinght Rdr. Nwa ... 295<sub>8</sub>
57 | 161<sub>8</sub> | Koehring ... 37
353<sub>4</sub> | 191<sub>8</sub> | Kinght Rdr. Nwa ... 295<sub>8</sub>
373<sub>4</sub> | Kropher ... 281<sub>2</sub>
283<sub>4</sub> | 147<sub>8</sub> | Kroper ... 281<sub>2</sub>
283<sub>4</sub> | 147<sub>8</sub> | Kroper ... 201<sub>9</sub>
141<sub>2</sub> | 77<sub>8</sub> | LTV ... 135<sub>8</sub>
351<sub>8</sub> | 183<sub>6</sub> | Lears Siegler ... 32
555<sub>8</sub> | 194<sub>6</sub> | Learseway Trans ... 33 1980 Oct. 51 | Price |Kronor High | Low 138 AGA
107 Atra-Laval
60 ASEA
60 Atlas Copco
135 Egfors
103 Cellulosa.
75, 6Electrolux.
80,Ericsson
138 Esselts
67 Fagersta.
66.5 Graenges
76,MoDomsjoe
68 Saab-Scania
174 Sandvik.
227 Skandia.
105 Skan Enskilda.
58 SKF.
148 St. Kopparberg.
53.5 Sven Handelsbn.
75 Swedish Match.
46 Uddelnolm 481; 253; Enserch. 465; 1434; 615; Envirotech. 1314; 62 25; Emark. 523; 5614; 225; Ethyl. 3015; 265; Excell O. 384; 4515; 263; Excell O. 384; 2793; 523; Excell O. 384; 5793; 523; Excell O. 384; 515; 979; Faberge. 1214; 61 2134; 1212; Federal Co. 481; 2134; 1212; Federal Co. 481; 2134; 1212; Federal Co. 481; 2134; 1212; Fed. Nat. Mort. 1374; 545; 2315; Fed. Resources. 76; 361; 1364; 2315; Fed. Resources. 76; 361; 1374; 4812 1 25% Enserch. 185 143 128 68.5 74.5 170 118 98.5 150 72 86.5 185 265 75.5 165 75.5 106.5 76.5 143 86.6 80 170 139 92 105 175 119 69 142 Big Thee Inds...... Black & Decker... 23.3 Side Boll 25.5 27.4 Boise Cascade 55.5 27.4 Boise Cascade 55.5 195a Borden 26.5 30 Borge Warner 42 55a Braniff Intl 55a 2073 Briggs Stratin 24.1 3014 Bristol-Myers 46 2878 BP 4619 95 216 265 136 77 812 75.0 107 89 84.5 2076 | 15½ | Pub. Serv. E & G. | 17% |
241g | 17% | Pub. S. Indiana | 20% |
5914 | 20 | Pullman | 60% |
171g | 13½ | Purex | 14½ |
52 | 21 | Purex | 14½ |
32½ | 24½ | Quaex | 35% |
35½ | 18½ | Quaex | 35% |
351 | 19¾ | Real Purex | 29% |
11½ | 5½ | Raiston Purina | 10½ |
15½ | 9% | Raiston Purina | 10½ |
15½ | 65¼ | Raiston Purina | 10½ |
15½ | 65¼ | Raiston Purina | 10½ |
15½ | 85¼ | Raiston Purina | 10½ |
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25½ | Raist Brockway Glass. Brown Forman B 4912 **SWITZERLAND** 1558 Bucyrus-Eric ... 15 Burlington Ind. 2714 Burlington Nrhn. High | Low 1,360 1,110 Ausuisse 1,235
1,880 1,585 Brown Bover I. 1,585
1,275 970 Ciba-Geigy 1,005
1,000 740 do (Part-Certz) 780
2,645 2,055 Credit Suisse 2,590
2,645 2,050 Elektrowatt 3,645
880 730 Fischer (God.) 820
78,750,51,000 Hoff-Roche PtCta 75,000
7,475 5,100 Hoff-Roche 1-10, 7,475
6,250 4,825 Interfood 6,178
1,490 1,245 Jelmoi 1,405 6001 994 128, 639: 242, 337, 488, 464, 464, 796, 478ITBS 576
537.Tokio Marine 681
795.Tokyo Elect.Pwr 956
111.Tokyo Gaz 117
509.Tokyo Sanyo 540
205.Tokyu Corp 218
178.Tokyl Corp 228
395.TOTO 483
574.Toyo Saikan 440 26 32 203<sub>4</sub> 3758 FRANCE 1980 Oct. 31 Price 235g Resorts int A
21 Revoo (DS)
11 Revor (DS)
13 Revor Copper.
361g Revion.
151s Rexnord R.
27 Rexnord Mis.
177s Rich Merrelf.
191g Rite Ald.
22 Roadway Exps.
67s Robins (AH)
114 Rockwell Intl.
25 Rohm & Haas.
1714 Rollins.
241g Rollins. 35½ 2078 5234 20 46¼ 40¼ 3034 3634 2.685 1,780 Emprunt 48 1975 2,552 10,195 5,890 Emprunt 7% 1875 10,180 4,391 3,555 0NE 5% 3,650 567 341 Air Liquide 567 341 Air Liquide 567 1,540 1,105 Aquitaine 1,480 87,5 Au Printemps. 117,10 1473 Carter Hawley.... 4371 Catorpillar ..... 4014 Celanese Corp.... 1,060 588 316 849 Central & SW.... \$00 584|Swissair. 429 346|Swissair. 429 346|Swissair. 429 546|Swiss Bank. 7,500 5,000|Swiss Reinsee ... 1,975 1,750|Swiss Volkabk... 3,800 3,170|Un|on Bank. 2,630 1,990|Winterthur. 15,700 12,700;Zuriohins. ... Central Soya ..... Central Tel Util... 15½ 145 345 52¼ 367 705 SOUTH AFRICA 461 BIC 496
147 Banq Rothschild 163.5
523 Bouygues 785
850 BSN Gervais 1,054
1,259 Carrefour 1,849
325 Club Mediter 415.20
274 5 loce 585 xr Oct. 31 Price 167g 15 | High | Low | Rand | 3.85 | 2.65 | Abercom | 3.78 | 10.2 | 5.46 | AE & Cl | 9.9 | 22.1 | 12.30 | Anglo Am. Gp. | 20.6 | 146 | 80 | Anglo Am. Gp. | 20.6 | 12.4 | 80 | Anglo Am. Gp. | 137.3 | 70 | 30.00 | Buffels | 67.5 | 5.40 | CNA Invests | 6.15 | 6.30 | 3.40 | CNA Invests | 6.15 | 6.30 | 3.40 | CNA Invests | 2.90 | 1.30 | Currie Finance | 2.65 | 13.65 | 8.85 | De Beers | 12.8 | 42 | 21.50 | East Dria | 41 | 100.50 | 49.00 | F3 Geduid | 89.5 | 116.5 | 65.50 | Gold Fields | 3.4 | 116 | 5.50 | 3.53 | Highweld Steel | 4.75 | 7.00 | 5.30 | Hulletts | 7.00 | 5.425 | 8.50 | CN | 6.85 | 5.90 | 5.00 | Nedbank | 6.85 | 6.90 | 5.00 | Nedbank | 6.85 | 8.10 | 5.90 | Rembrandt | 7.85 | 8.10 | 5.90 | Rembrandt | 7.85 | 8.10 | 5.90 | Rembrandt | 7.85 | 9.20 | 4.90 | Rust Plat | 7.50 | 9.20 | 4.90 | Rust Plat | 7.50 | 4.50 | 2.68 | 3.85 | 2.85 | 2.45 | Rennies | 3.69 | 9.25 | 10.30 | 3mith CG | Sugar | 18.5 | 2.40 | 1.40 | Sorac | 2.30 | 19.51 | 13.50 | Tiger Oats | 12.5 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1. High ! Low 844 Roim
88 Roper Corp\*
194 Rowan
104 Royal Crown
696 Royal Dutch
204 Russel Stv
1178 Russel Stv
1654 Ryan Homes
184 Ryder System
1858 SFN Companies
2458 SPS Technology
3119 Safeco
2778 Safeway Stores
55 St. Joo Minis
494 St. Louis, San F.
51 St. Paul Cos
2514 Sare Fe Inds.
30 Sante Fe Inds.
30 Sante Fe Inds.
314 Saxon Inds.
2918 Schering Plo AUSTRALIA 144 424 103 2978 1658 299 3112 3914 4012 7918 63 1058 94 45 Price Aust. 8 High | Low 4.10 ANZ Group ....... 0.80 Acrow Aust. 0.95 Allstate Expl..... 1.00 Ampol Pet.... 1.80 Assoc Pulp Pap... 0.24 Audimoo.... 5,10 1,15 2,60 Cincinnati Mil. 471:
Citicorp. 193a
Cities Sernos. 44
City Investg. 23-3
Clark Equipment 241:
Cleve Cliffs fron. 101:
Cluett Peaby. 10
Coca Cola. 304;
Coca Cola. 304;
Coca Ett. NY. 61:
Coligate Palm. 141:
Coligate Aikman 85;
Cota Inda 455; 2,02 2,50 0,42 2,58 1,60 3,06 2,21 3,50 2,12 3,50 2,13 3,50 3,13 3,25 6,10 42.8 1.80 Aust Cons Ind..... 1.32 Aust Guarant 1.84 Aust Nati Ids..... 267;Gen Occidental... 381 386| 132| 62.6 (metal..... 224 Lafarge...... 600 L'Oreal..... 305.0 732 1,858 72,9 1134 64 35:g 15.80 07.77.910 25.82 0.441 1.440 6.200 10.555 4.70 10.505 14.70 10.505 14.70 10.505 14.70 10.505 14.70 10.505 14.70 10.505 10.5 1 55,40 Indices **AUSTRIA** Financial Rand US\$0.961 **NEW YORK** 160 229 Oct. 31 (Discount of 271%) 1980 · SinceC'mpil't'n Oct. Oct. Oct. Oct. Oct. Oct. 31 30 29 28 27 24 High Low High Low 356 Creditanstalt.... 336 Landerbank.... 263 Perimoser ... 100 Semperit.... 230 Steyr Dalmier ... 280 Veitscher Mag... Oct. Oct. Oct. Oct. 51 80 29 28 336; 474 142 288 139.7 1,050 317.5 1,352 261.7 Oct. 31 Price Cruz AUSTRALIA (22.3) (21/4) H'me B'nds 65.85 65.85 96.98 66.09 68.21 bd.61 78.61 63.87 Sydney All Ord. (1988/89) 1025,78,1015,73 1005,82,1005,58, 1026,73 (51,10) Metal & Minris. (1988/89) 6975,48 6875,78 6777,48 6781,28/ 7926,62 (20/10) 2.55. 1.09 Acesita 4.57. 2.45 Banco Brazil 1.83. 1.43 Banco Itau 5.45. 1.90 Belgo. Min 6.10. 1.97 Petrobras PP 2.07. 1.00 Pirelli OP 4.00. 2.38 Souza Cruz 7.30. 4.80 Unip PE 11.90 2.93 Vale Rio Doce. Transport., 361.31 360.87 365.74 565.94 365.14 575.47 381.08 235.59 | 381.08 | 12.25 (22.10 | 127.5) (22.10 | 127.5) (22.10 | 127.5) (22.10 | 127.5) (22.10 | 127.5) (22.10 | 10.35 170.15 111.43 111.63 112.01 112.74 | 115.88 95.64 | 165.42 10.52 (26.469) (28.469) (28.469) AUSTRIA Credit Aktien (2/1/62) 68.59, 88.95 68.95 68.91 69.40 (7/1) 65.68 (19/S) BELGIUM/LUXEMBOURG GERMANY 85,95 (21/10) Oct. 31 Oct 31 agen SE (1/1/75) | 97,27: 98,58, 98,61 98,70 74.78 (6/5) 2,450 1,034ARBED. 5,400 5,000 Banq Ind A Lux. 2,170 1,576 Bekaert B. 1,120 900 Coment CBR. 386 190 Cockerill. 2,330 1,480 EBE. Price Dm. ●Day's high 929,35 low 911,60 High | Low FRANCE FRANCE CAG General (28/12/81) 118.2 118.5 117.5 118.5 Ind Tendance (28/12/78) 119.4 119.5 118.8 118.0 TEL AVIY Oct. 24 Oct. 17 | Oct. 10 Year ago (approx (nd. div. yield 🖔 💢 🗕 Prices Change 5.63 | 5.66 5.71 Nov. 2 on the 1980 week GERMANY FAZ-Aktien (51/12/68) STANDARD AND POORS Banking, Insurance and Finance Bank Levmi to Israel... 962 IDB Bankholding .... 1,075 Bank Hepoelim Br. ... 921 Union Bank Israel Br. 950 212,73 (21/3) 1980 Since Cmpil't 1.50 1.72 2.00 1.56 4.50 9.50 9.50 9.50 16.55 0.65 1.65 0.88 6.96 0.88 6.96 0.88 6.96 6.72 749.2 (26/2) 217 163.5 BHF-Bank...... 172 143 BMW....... 324 264.5 Brown Boyeri ... 186.4 137.6 Commerzbank. Oct. Oct. Oct. Oct. Oct. Oct. Oct. 31 . 80 29 28 27 24 | High | Low | High | Low HOLLAND ANP-CB8 General (1970) | 88.4 | 88.4 | 88.5 | 88.1 | ANP-CB5 Indust. (1970) | 84.8 | 84.1 | 85.8 | 54.2 | 74.0 (27)5) 58.2 (28/6) Tindust'ls... 145.16 145.72 145.64 145.80 145.60 147.82 152.84 ; 111.05 152.84 5,52 (15/10) (27.77) (15/10/80 (246/62 7.70) (15/10) (16/10) (16/10) (16/10) (16/10) (16/10) (16/10) (16/10) (16/10) (16/10) (16/10) (16/10) 68.5 42,2 Conti Gumm Utd. Mizrahi Bank ..... Hassneh Insurance Br. Gen. Mort. Bank Br.... 5,250 4,800 Petrofina 5,220 4,800 Royale Belga 2,895 2,100 Soc Gen Banq 1,750 1,110 Soc Gen Belga 2,790 2,200 Sofvay 2,735 2,000 Traction Elect 1,555 1,200 UCB iang Song Bank (61/7/94), 1428,86 1436,50 1451,56 1471,85 1488,28 (61/10) 788.9 (18/8) Oct. 22 | Oct. 15 | Year ago (approx 1,910 Bank Br. ..... 775 + 19.0 5.42 4.55 Land Development Africa Israel Inv. 1610 1,330 Israel Land Dev. Br.... 609 Property and Building 730 9,29 8.86 9.15 Dow Average (18/6/45) | 7150,75/7124,78 7113,55/7688,44 7175.55 (20/10) | Tokyo New SE (4/1/68/ 498,05 494,83) 495,54 491,88 497,98 (20/10) | 10.28 11,80 11,41 1,266 702 1 110 Long Gov. Bond Yield 12,25 1 040 694 Union Minlere 1,795 1,110 Vieille Mont... Public Utility Israel Electric Corp. Rises and Falis + 35.0 N.Y.S.E. ALL COMMON Oct. 31 Oct. 30. Oct. 2 Israel Electric Corp. ... Investment Companies Bank Leumi Invest. ... 125,6 124,24 124,42 125,65 144.78 (14/2) Oslo SE (1/1/72) 110.12 (29:5) Bank Leumi Invest. ... 665
"Clei" [areel Invest, ... 881 1,65 Tooth ...... 5.70 Utah Mining. Oct. Oct. Oct. Oct. High Low DENMARK SINGAPORE 681.5 | 665.75 | 661.87 | 658.21 881.3 (31/18) 428.76 (3/1) Discount Invest. 0,55 Waltons... 258.5 218.0 Karstadt..... 0,55|Waitons...... 3,55|Western Mining, 75,55 72,85 78,80 73.84 77,24 55,50 Commercial and SOUTH AFRICA Gold (1958) Oct. 31 1.70 Woodside Petrol. 1.42 Woolworths ...... 2.75 Wormald Intl..... 189 New Lows ... 185.1 52.8 515 65.5 185.5 648.5 (2/7) 466.0 (2/1) Alliance Tire & Rubber 3,000 ndustrial (1958) 185.5 108 Andelsbanken 118.4 407 218 Baltica Skand 828.4 121 102.75 CopHandelsbank 116.4 350 189.75 D. Sukkerfab 342.6 120 100.75 Danske Bank 115.4 150 102.75 East Asiatic 142.4 1980 - 28.0 + 8.0 MONTREAL Oct | Oct Oct Oct -Low SINGAPORE Amer. Israel Ppr. Mills 1.280 —115.0 Assis — 884 + 54.0 Elite — 881 — 36.0 Teva Reg. — 1,110 — 77.0 Madrid SE (28/12/79) 109.71 | 105.23 | 109.57 | 109.52 | 111.17 (19/9) 88.78 (13.6) 559,07; 355,94 885,74 895,22 423,80 (29;2) \$25,21 (27;5) 350,18 547,21 362,58 568,52 678,98 (20;10) 286,58 (27/5) Oct. 31 SWEDEN High Low Jacobson & P. (1/1/58) 287.0 882.68 277.87 274.78 887.0 (81/10) 384,72 (17/1) 808 806 TORONTO Composite 2240,2 2215,0 2501.4 2521.5 2588,5 (20/10) 1762,5 (27/5) 135 Finansbanken .... 159 205 Forenede Brygg, 323 2,48 Boustead Bhd.... 6.5 8,60,Cold Storage ..... 3.58 4,46 DBS..... 5,55 SWITZERLAND Swiss BankCpn.(\$1/12/6s) 297.0 296.5 294.0 291.9 217,9 (11*/*2) 208 | 149.5 | Forende Brygg, 323 208 | 149.5 | Forende Damper, 208 202.75 | 155.5 | GNT Hidg. | 173 167.6 | 129.25 | Nord Kabel | 180 684 | 115 | Nord Ind. | 615 117.5 | 100 | Papirfabrikkar | 105.4 125.5 | 106.25 | Privatbanken | 122 133 | 108 | Prov mbanken | 125 299 | 238.50 Smidth (FL) | 261 595 | 306 | 8. Berendsen | 595 135 | 96.75 Superfos | 135.6 Friday Stocks Closing on traded price day

S. Juan Royalty 1, 228,900 12½ — W
Guit Oil ........ 557,900 39½ — /

Favality Wi 533,100 37 + 49½

1894xd — ½ Source: Bank Leumi le Israel BM, Tel Aviv. NEW YORK ACTIVE STOCKS 4,46 DBS.... 5,00 Fraser & Neave... Change Changa
Changa
Stocks Closing on
traded price day
481,000 74½ + ½
446,200 20½ + 1
401,000 369,200 16½ - 1
339,700 19¾ traded prica 481,000 741; 446,200 201; 401,000 461; 369,200 161; 339,700 191; NOTES:—Prices on this page are as quoted on the individual exchanges and are last traded prices. \$ Deslings suspended. xd Ex dividend. xc Ex scrip issue. xr Ex rights. xa Ex all. Base values of all Indices are 100 except NYSE All Common—50; Standard and Poors—10; and Toronto—1,000; the last named based on 1975. † Excluding bonds. ‡ 400 industrials. § 400 industrials plus 40 Utilities. 40 Financials and 20 Yransports. c Closed. u Unavailable. 280 260 Verein-West ...... 191,1 165,3 Vojkswagen .....



# FINANCIAL TIMES SURVEY

Monday November 3 1980

# Widdle East Oil and Gas

The Iraq-Iran conflict is one the oil producers could do without, because it will inhibit future investment in war-vulnerable industries. Political survival and the need for a sensible pricing strategy are the main priorities, plus a drive to lead the various economies away from their reliance on one resource.

## Security the constant Worry

By Patrick Cockburn

DURING THE 1970s Middle East oil producers benefited from mon is a deep suspicion of the war and revolution. Prices industrialised world. attacks on the independents in oil producers could have done the early years of the decade. without. The Gulf States are the Arab-Israeli war of 1973 at the heart of the Organical States are led directly to the transport led directly to the tremendous growth in the cost of oil en-guned in the West and else-where. In the mid-1970s the price of crude dropped until the strikes against the Shah in the oilfields of Khuzestan in late 1978 started a new explosion in export prices.
The immediate benefits to

producing States of the Iranian revolution are obvious. Nobody was slow to take advantage of them but with the fall of the Shah the spectre of revolution Iraqis and vetoing any new and war stood on the shores price system. In Iran itself the

triumph in Iran would lead to the Gulf countries falling like so than all of President Carter's many dominoes seemed to dis-appear. The Iraqi attack changed all that. What was changed all that. What was producers is that their own planued as a limited assault to security is threatened and there obtain territorial concessions, is very little they can do about

increased prestige for Iraq and it. Saudi Arabia, Kuwait and the punishment of the rulers of the others have small population turned into a total war.

Nothing was sacrosanct. Oil facilities on both sides have been shelled and bombed. They have every reason to fear within a matter of days almost their enemies and good reasons the sample of this was not immediately very dramatic. The Iranian revolution had shocked the oil. tion had shocked the oil market and some new trauma had been vaguely expected by the oil consumers. Stocks were high and, in any case, there was little the West could do about a war between two protago-nists whose only point in com-

tion of Petroleum Exporting Countries (OPEC) and already at the Vienna Summit it was clear that political antagonisms were taking first place. The elaborate new price structure, with special indices to link the increase in the crude price to inflation and industrial development in the world, clearly made little impact on the Iranians. Their Oil Minister, Mr. Ali Akbar Moinfar, spent much of the conference belabouring the

sanctions. The problem for the key oil

damage to the Iranian economy

enunciated by the U.S. in January that Washington was prepared to use force to secure Gulf oil supplies from outside threats was not greeted with any enthusiasm by Gulf States. They desperately need to keep Great Power rivalries at a distance—they clearly cannot be excluded altogether from an area which provides 60 per cent of OPEC production and a high percentage of Europe's supplies.

Oil prices-indeed economic considerations in generalmust take second place to the needs of political survival. Whether this requires producing more oil or less hardly matters. Security is what counts. All the arguments over the past year about the gradu ated increases for oil over the coming decade appear irrelevant when the chips are down Libya and Algeria may not feel that way but their production is insufficient to really sway the

of the Guiff.

For 18 months Iran's attacks ceeded in April in cutting liself the mankets by mained rhetorical and fears raising its price just as the among the industrialised States market was softening. This could be market was softening. south to the Strait of Hormuz has led the Saudis to seek more American protection. In late September four AWACs surveillance aircraft were put at Saudi Arabia's disposal. A large fleet, mainly of U.S. vessels, waits in the Indian Ocean as a symbol existing output of 475,000 b/d.



Drilling a natural gas production well for BANOCO in Bahrain

of Western intentions. the uncertainty of the political situation would lead to dramatic price increases. Other oil producers such as Kuwait and the United Arab Emirates (UAE) showed some sympathy in the early days of October for the consumer but were not prepared to increase their production dramatically. Qatar's promised contribution for instance, was a tiny 20,000 1/d on top of

In the middle of October the cial. At the same time as the The increase in Saudi Arabian production to 10.4m barrels-a-would be some hardening of spot market was soft and the day (b/d) production initially prices when they raised their depression in the West on top quieted fears in the West that oil by \$2 a barrel.

> had already discovered the limits of the market when they surprised purchasers by raising try to develop some general prices by \$2 to \$35. A constraint of 12 Japanese com-OPEC current account surplus panies together with BP and Shell thought this too expensive. They pulled out. The Iranians blamed their withdrawal on U.S. pressure but the purchasers maintained that their motives were purely commer-

Earlier this year the Iranians stocks to a high level.

Against this background it seemed opportune for OPEC to for 1980 estimated to total \$120bn no member of the organisation was likely to cut prices purely to increase revenues.

Since the first explosion of

oil prices in 1972 total OPEC

## external assets have increased to \$300-350bn of which some \$118bn is held by Saudi Arabia. The OPEC summit in Vienna could have adopted the plan pushed by the Saudi Arabian Oil Minister, Sheikh Yamani, to link the increase in the oil Gas exports price to indices which would take account of the impact of inflation and the development

States had much to gain economically but the political divisions proved too wide to bridge. Politics, not economics, will determine the future decisions of OPEC. It is unlikely that Arab States will ever again push for the breakneck development seen after 1973. The limitations on capacity to absorb invest-ment have been demonstrated. The fall of the Shah has shown the consequences of fracturing the social structure in pursuit

of the consumer countries

The

producing

## Phenomenon :

of swift growth.

There is a less noticeable phenomenon which may also restrict the growth of the countries of the Gulf in future. The war between Iraq and Iran looks as if it will be prolonged. Once it is finished both sides will move quickly to repair or replace their oil production and export facilities. But it is most unlikely that either side in the war or their immediate neighbours expect to see stability return to the Gulf.

Even with a peace there is always the chance of war break-ing out again. This will disincline the combatants from investing billions of money in downstream industries which are vulnerable to air attack and artillery. Bandar Khomeini in Iran has been severely damaged. The Iraqi fertiliser and petro-

CONTENTS Petrochemicals Ш Security

chemical plants at Khor al-Zubair have come under attack. Capital-intensive projects are less attractive in a region where

air raids are possible.
It is not surprising that the atmosphere today in the main Middle East oil and gas producers is so different from the heady days after the 1973 price rise. It is true that between the end of 1978 and today the price of Saudi Arabian light crude rose from \$12.70 a barrel to \$30. But it is likely that the rulers of the Kingdom would have traded all the increased wealth for the political security which money cannot buy. The views of the Algerians and the Libyans hardly count when the main Gulf producers consider their political options.

Already the attitudes of the producing States to oil prices and production, the develop-ment of industry, the import of expatriate labour, the distribution of foreign assets, and the future of OPEC have been modified if not utterly changed by the fall of the Shah and the Iraq-Iran war.

IN US DOLLARS

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## FINANCIAL HIGHLIGHTS

· · · · · · · · · · · · · · · · · · ·	(MILLIONS)
DUE FROM BANKS	692.4
INVESTMENT LOANS AND ADVANCES	273.6
EQUITIES	349.0
DUE TO BANKS	<i>777.</i> 6
DOC CREDITS	4,500.0
CAPITAL AND RESERVES	172.2

Chairman and General Manager: Mr. Aboubaker A. Al-Sherif. Deputy Chairman: Mr. Mohamed I. Abduljawad. Members: Mr. Mabruk Tushani, Mr. Bashir M. Sharif, Mr. Gamal T. Abdelmalek, Mr. Mohamed H. Layas, Mr. Hadi M. Fighi. Secretary to the Board: Mr. Abdulmouneim H. Elkaami. Auditors: Mr. Ibrahim Baruni, Mr. Makki and Abuzed & Co.

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# Determined policy to build up industry

## OAPEC

JOHN CHRISTIE

THE Organisation of Arab Petroleum Exporting Countries (OAPEC) is regarded by some jaundiced outsiders as a cosy cartel whose Arab members spend much of their time deliberating the timing and scale of the next oil price increase. To others OAPEC might seem merely a regional extension of the Organisation of Petroleum Exporting Countries (OPEC) itself; a to co-operate amicably to nationalistic offshoot from the parent body, a club within a

But while OPEC is mainly concerned with the international arrangements and relations of its members, OAPEC is engaged a surprising range of

Emirates—between them produced over 9 000m tons of oil in the years 1970 to 1979; more and survive internal differences cal and managerial skills. But OAPEC maintains there is no united Arab front on the oil real alternative to industrialissue.

barrels of oil a day off the levels. In a recent article (in market. Yet the remaining the Third World Quarterly)
DAPEC producers, if they Dr. All Ahmad Attiga, Secretary OAPEC producers, it does increased their production to increase in continuous campaign, tantavide an additional 3m barrels a mount to cold war, waged against OPEC by many circles of the increase in war, since more than 2m barrels a day was going into storage before the fighting broke out.

Whatever the eventual outcome of the Iraq-Iran war the solidarity and unity of OPEC will be severely prejudiced: the two countries are scarcely likely to co-operate amicably together

agreements among the Arab members in the 12 years of OAPEC's existence. In 1971 on prices and supply and demand problems.

The undoubted influence and power of OAPEC rests, of course, on the oil resources it represents. The 11 members of CAPEC to a course of the c course, on the oil resources it in Bahrain; as a result of the represents. The 11 members of Camp David agreements Egypt OAPEC — Algeria, Bahrain, is estranged from the rest of Egypt, Iraq, Kuwait, Libya, the Arab world. Nevertheless, Oman, Qatar, Saudi Arabia, OAPEC has managed to absorb

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with vested interests in the preservation of the present world economic order."

Dr. Attiga wrote in the context of OPEC generally, but the message is undoubtedly an OAPEC one. At the core of OAPEC's position is the chill certainty that the Arab oil states essentially have one commodity for international trade, the ultimately finite and con-

No such problems beset OAPEC. There have been disagreements among the Arms of the among the Arms of the among the Arms of the dustrial capacity in the Arab oil states, both as a vehicle for future growth and a replacement for dependence on oil.

This policy is not without its critics, who question the long-term viability of industries based in countries with mainly very small populations and a severe shortage of technologi-

the embargo on the export of nuclear technology for peaceful function independently and are purposes and a greater involve-ment by the industrial nations market and conduct their busiin establishing modern indus-trial capacity in the Arab The first of the OAPEC world.

In pursuit of its policy of industrialisation, OAPEC has been instrumental in the forma-tion of a number of industrial and financial entitles which are already making their economic and social mark on the Arab oil countries. These developments the middle of a world shipping are parallel and additional to recession. The company has lost the national industrial pro-grammes of the individual OAPEC members an are meant to complement rather than compete with local enterprises,

subscription. The companies

The first of the OAPEC-sponsored companies to be formed was the Arab Maritime Petro-leum Transportation Company (AMPTC), incorporated in 1973 and based in Kuwait. AMPTC as the location. elected to go for new building for its oil tanker fleet and found itself beginning operations in money from its inception: the present forecast is for a net loss of \$20.5m in 1980.

All of the OAPEC-sponsored companies are inter-Arab in character, jointly financed by the subscriptions of the OAPEC next OAPEC-sponsored venture

occupancy Current reportedly running at about 90 per cent of capacity and ASRY revenue in the first six months of this year was \$11m. OAPEC has recently completed feasibility studies for a similar dry-dock facility in the Medi-terranean, with Algeria selected

Another OAPEC - inspired creation is the formidable Arab Petroleum Investment Corporation (APICORP). Formed in 1975 with an authorised capital of about \$1bn, of which a third is subscribed, APICORP Future profitability is doubt-ful but OAPEC has its inter- and Turkey. Last year the corporation made a net profit of Saudi Riyals 95.3m revenues of SR 118.0m.

APICORP has already made

than one-third of the world total consumption of crude oil.

The current war between Iraq and Iran has taken about oil parrels of oil a day off the barrels of oil and your consumption of crude oil.

The current war between Iraq and Iran has taken about oil price barrels of oil a day off the barrels of oil a day off the barrels of oil a day off the barrels of oil and the production grade industrial technology.

Among other things, OAPEC manket. Yet the remaining the Third World Quarterly the embarce on the owner of the oil exchange must be the industrially states participate in every project, nor is equal subscription dock installation inaugurated in the field Libya and has been invited to of oil-related investment and it extend its operations to Balmain dock installation inaugurated in the rule; it is for the individual countries to decide on participation of the Third World Quarterly the embarce on the owner of the oil exchange must be the members. Not all the member states participate in every project, nor is equal subscription dock installation inaugurated in Bahrain in 1976. The project is countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries to decide on participation of the rule; it is for the individual countries of the rule; it is for the individual countries of the rule; it is for the individual co

## Ambition

It is not too fanciful to consider the possibility that one day APICORP could be a partner in British North Sea oil developments; APICORP has both the ambition and the capacity to do so and it is certain that the corporation's investhas already invested in various ment analysts' sliderules have been run over the prospects.

direct commercial interests in Also, with some justification, the exploration and production OAPEC believes it has done areas of the oil industry is in more to create practical aspects. nands of the Arab Petro- of Arab economic unity than all leum Services Company (APSC). the well-meaning but largely This company, based in Tripoli ineffectual political attempts to in Libya, is a holding company achieve the same goal.

charter was broadened to allow it to invest in oil projects throughout the world and the corporation announced that it is actively seeking oil situations company with an initial capital in which, preferably, it can be an equity partner.

OAPEC's next steps in the industrialisation programme, for which it already has approval, include the establishment of the Arab Detergents Company with an initial capital of \$200m; a company to produce basic Lube College. neering Consulting company: a company to specialise in the repair and replacement of ships propellors; and an Electric Well Logging services

company. The measure of the success of these companies, both in being and planned, will not be taken only by a financial yardstick. To OAPEC the establishment of een run over the prospects indigenous industries in the member states has a value of the member states has a value beyond financial considerations.

in Libya, is a holding company expressly charged with the creation of separate companies to function in oil-related industrial programmes may or may not work, but whatever the Arab Drilling and Work-the outcome the Arab oil over Company (ADWC) is states are embarked on a new company achieve the same goal.

In the long run OAPEC's multivous and far-reaching industrial programmes may or may not work, but whatever the outcome the Arab oil of the control o operates 15 drilling rigs in sible change.

# Increasing role as trade develops

## **GAS EXPORTS**

MARTIN DICKSON

TWO MAJOR new policy moves this year by Algeria have high-lighted the rapidly growing importance of the international gas trade — and the Middle East's significant role in it. Algeria has been calling for the creation of an international

similar to the Organisation of Petroleum Exporting Countries (OPEC), which could fix world prices the way OPEC does for

It has also been trying to push the price of natural gas up to parity with crude oil — a a long pricing dispute with the major customers for its liquefied natural gas (LNG) — Gaz de France and the El Paso company

Last spring Algeria reduced

to a trickle its supplies of LNG to Gaz de France when this customer refused to accept a price rise from less than \$3 per million British Thermal Units (BTUs) to \$6. In the summer agreement was finally reached on a payment of \$3 to \$3.50 per million BTU. In an attempt to save face Algeria has claimed that it was not going to go that this is merely a down-payment towards a price yet to But the fact remains that the settlement was a sharp setback to its parity campaign. The Algerian Government The Algerian Government seems on the verge of reaching a similar compromise agree-ment with El Paso, whose LNG supplies it severed completely when the Houston-based company refused its price demands. Whatever the outcome, both pricing dispute and the cartel calls are symptomatic of the increasing importance of the

The international gas tradeboth by pipeline and as LNG-

international gas trade in a

world where the energy supply-demand equation is finely

amounted to about 170bn cubic metres last year, with some 27 per cent provided by the Netherlands, 21 per cent by the Soviet Union, 18 per cent by OPEC States (in the Middle tors. East and Indonesia) and 16 per

cent by Canada. Trade is expected to double by 1990 and OPEC's share of it could rise to just over 35 per cent, with members of the cartel

playing a predominant role in LNG movements.

At first sight it may seem surprising that the Middle East does not have an even bigger role in the gas trade, given its pivotal role for the world oil industry. But it is relatively recently that the gas reserves of the Middle East have been

exploited on any major scale.

The production of LNG, which involves cooling gas to minus
161 day C was plongered by 161 deg C, was ploneered by Algeria. It delivered the world's first LNG commercial cargo to Canvey Island, Essex, in October, 1964. Since then its LNG capacity has expanded rapidly, so that last year it was contracted to supply a total of 22.4bn cubic metres to customers in France, the U.S., Spain and the UK.

## Brake applied

However, earlier this year Algeria applied the brake to its LNG expansion. It announced its western coastli current plan period, which ends

The move has been a blow to Holland and West Germany, since Sonatrach, the Algerian State hydrocarbons group, had agreed to supply them from this plant with 224bn cubic metres of LNG over a 20-year period, starting in 1984.

But Algeria does not seem to have ruled out the possibility of building the plant at a later date or, alternatively, sending the gas via a pipeline across the Mediterranean, possibly to

One advantage of a pipeline, from Algeria's point of view, is

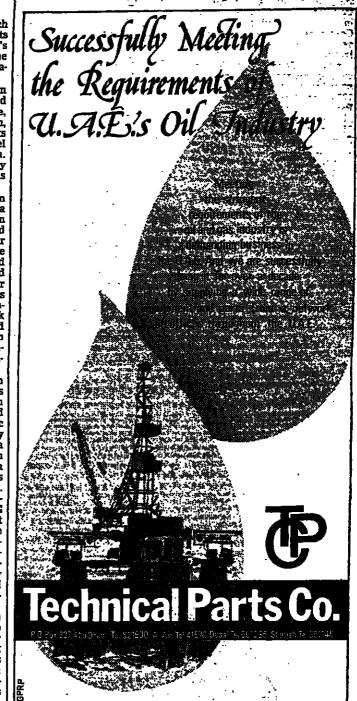
As it is, a large proportion of Algeria's gas is to be moved to Europe via a \$2-\$3bn pipeline, currently under construction, stretching 1,500 miles from its eastern gas field of Hassi R'Mel to the Italian city of Bologna. This pipeline will initially carry 12.36bn cubic metres of gas

Only one other Middle Eastern state—Iran—has relied on a pipeline for gas exports. In the Shah's time Iran shipped 10bn cubic metres of gas a year to the Soviet Union via the Igat I line. The figure dropped to 3bn cubic metres in 1979 and exports ceased altogether earlier this year, for technical reasons and because of an Iranian-Soviet pricing dispute. Work has been suspended on a second pipeline to the Soviet Union designed as part of a complicated pan-European supply net-Two other Middle Eastern

states have followed Algeria's move into LNG—Libya, which has been supplying France and Spain with up to 3bn cubic metres a year since the early 1970s, and Abu Dhabi, where a liquefaction plant with a design capacity of Sbn cubic metres a year has been operating on Das Island for the past three years. ing over the future of LNG supplies from the Gulf is what Qatar intends to do vast gas reserves of its north-west Dome field, discovered offwhere in 1972. Industry esti-mates suggest the field, arguably the world's biggest, could hold up to 2.8 trillion (million mil-

lion) cubic metres.

Several other Middle Eastern oil producers have decided to use much of their gas for domestic consumption. The most notable example of this approach is Saudi Arabia, which is undertaking a huge gas-gathering project whose costs could exceed \$20bn.



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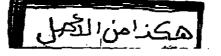
Four years of successful operations are paving the way for expanding activities to complementary projects in Third World nations and advanced industrialised countries.

To date, the projects financed by loans and equity participation have been in gas liquefaction, petrochemicals, tankers, oil refineries, drilling and fertilizers.

In the coming years, the list will include joint ventures in detergents, lube oils, catalysts, synthetic rubber, synthetic fibres, pesticides, paints, plastics....

In fact, any project in which oil and gas are primary inputs or outputs. Similarly, projects supplying or developing advanced technologies for producing, processing or transporting oil and gas.





## MIDDLE EAST OIL AND GAS III

# State takes a bigger stake in production

State Companies

RAY DAFTER

THE COMPLETION of the takeover by Saudi Arabia of the powerful Arabian American Oil Company (Aramco) in September set the seal on a trend that has fundamentally reshaped the international oil industry over the past decade.

Aramco had grown into the world's largest oil-producing company. It provided a vital flow of crude oil to its four U.S. now claims to be the major partners—Standard Oil of North Sea explorer. It is also California (Chevron), Texaco, Exxon and Mobil—while at the same time exerting considerable influence on U.S.-Middle East relations

But even Arameo could not withstand the tide that has given oil-producing States, particularly members of the Exporting Countries (OPEC) a greater direct stake in world oil production. Since the early 1970s oil companies have seen their producing concessions either nationalised outright or partially taken over by the

. But the changing structure of the oil industry has not stopped there. Producing governments by the consumer-country based and their State oil corporations private sector, has gone," he are controlling an increasing share of the international trade in crude and refined products. • In 1970 some 94 per cent of Government - to - government the oil produced in non-com-

frequent. Saudi Arabia—the world's biggest oil exporter— provides a case in point. In 1978 the direct crude sales of Petromin, the Saudi national Shell Gulf, Mobil, Standard Oil oil company, amounted to of Galifornia, Texaco and 550,000 barrels a day (b/d). By British Petroleum. According

Crude Oil Disposals Under Government Involvement (year-end 1979)

exports
60
40
30
10
20
9

Source: Jochen Mohnfeld, International Energy Agency: Petroleum Economist, August, 1980.

output to between 10m and Chalabi, OPEC's deputy secre-10.5m b/d as a partial offset to tary general, the oil producers' the disruption in world supplies caused by the Iran-Iraq war. It is not only the members

of OPEC that have increased their State interest in production and trading. In Britain the British National Oil Corpor-ation (BNOC) has been encouraged by both Labour and Conservative governments to play a major role in North Sea activities. As a result BNOC the most important trader of North Sea oil, handling about two-thirds of the UK output thanks to its equity interest, its access to royalty oil and its participation arrangements.

These developments, which have disassociated the decisionmaking of producing countries from oil requirements in consuming countries, "essentially represents the disintegration of the oil industry's former vertical structure." reports Mr. Jochen Mohnfeld, an oil market analyst in the Inter-national Energy Agency. "The era when oil production was adjusted to oil demand, mainly private sector, has gone," he wrote in a recent edition of the Petroleum Economist.

deals are becoming more munist countries was owned by private oil companies: 61 per cent of the total was in the hands of the seven major companies, the so-called "Seven Sisters "-Exxon. Royal Dutch/ September, when Saudi output to Shell by last year about 55 per cent of the ownership had been transferred to the governments of producing countries. The seven majors accounted for a quarter of the output with smaller private companies owning the remaining 20 per cent. • At the time of the first energy crisis in 1973 major oil companies were selling in third party deals between 6m and 7m b/d of the 30m b/d available to them. This year, reports Mr. Mohnfeld, the majors will have

was 9.5m b/d, Petromin's direct were exporting about 5 per cent sales had risen to over 2m b/d. of their countries' externally Since then the amount has traded oil, Last year their share increased further as a result of had risen to 46 per cent. Now, Chalabi, OPEC's deputy secre-State oil companies are handling over 12m b/d of crude and refined products, about half of

the Organisation's exports. Against this trend it was countries. perhaps inevitable that governments of countries heavily dependent on oil imports should seek to become more involved some cases direct imports by State agencies or companies are being supplemented by diplotrading deals fixed by State matic moves that indirectly promote crude oil trade by private

1m b/d of oil was traded by non- in September: "It is, and alcommunist countries as a result ways has been the case, that the Kingdom's decision to raise according to Dr. Fadhil al- of government-to-government in- governments are more willing to volvement. Last year some 5.Sm b/d moved as a result of such deals: 1.5m b/d were imported those whose aims and interests by Japan, 2.5m b/d went to run counter to their own." Europe and 1.8m b/d were bought by less developed

Iraq, a strong advocate of such sales, was until the war with Iran, the OPEC member selling the largest volumes on a governin the international oil trade. In ment level. Libya, regarded as essence they felt uneasy about a pioneer in restructuring relarelying solely on the importing tions between oil companies Kingdom's agent, has won the ability of the private companies and producing countries, and right of "absolute discretion" in their midst. So government to-government supply contracts cantly involved in government to-government the increase, In contracts. (See accompanying

Clearly there are political implications in these deals. As M. Nordine Ait - Laoussine, former executive vice-president of Sonatrach, Algeria's State oil government

trade with partners with whom they are in sympathy than with

One recent example of government - to - government arrangement with political strings attached is the contract signed betwen Saudi Arabia and Denmark. Petromin, as the to terminate the supply contract if the Danish Government in any way brings the Saudi Govern-ment into disrepute.

Discretion

Within the oil industry Japan is usually nominated as the country which initiated the wave of direct sales between agencies.

and Spain are other major oilconsuming nations that have become deeply involved in government deals. It is no coin-

Shell, in its recently published briefing paper "The Changing World of Oil Supply," points out that the main advantage generally attributed to course, they are tied to specific ernment-to-government deals is that they increase the security of oil supplies in an uncertain world. "Paradoxically, this is not necessarily the case," says Shell.

about future imports of oil.

The company points out, with

Figures again provided by Mr. company, pointed out at the Japanese Petroleum Develop- their insulation against political well over \$550.

Mohnfeld show that in 1973 only Second Oxford Energy Seminar ment Corporation was created events because of the erosion of The international oil market as a quasi-governmental body trading by non-political oil com- is still changing. In present cirto co-ordinate and promote oil panies. "With the rapidly cumstances one can only developments by Japanese com- changing world political situa- conclude that the influence of panies. France, Brazil, Italy tion, and the many sensitivities State oil companies will grow. involved, a number of such con- There are already signs that tracts have broken down."

Undoubtedly there has also cidence that all of these countries are particularly nervous government deals involve East oil exports, smaller quantities than the To return to M. majors used to handle and, of destinations.

As a result of all this, the oil the extra stocks needed to cover some justification, that import the new requirements would be supply channels than we have ing countries have lost much of at least 150m barrels, worth seen so far."

producing countries want to become more involved in downbeen a reduction in the flexi-bility of the world oil market. and petrochemical operations. Companies are now less able to Politics will play an increasing switch a cargo from country A role in determining the price and to country B. Government-to- ultimate destination of Middle

To return to M. Ait-Laossine's comments at Oxford: "The 'price of oil' will less and less be expressed in terms of cash, and more and more in terms of companies maintain, extra stor-age and shipping facilities will as hardware. This nonbe needed to provide a measure commercial aspect of oil trade of flexibility. Shell reckons that will inevitably lead to a further restructuring of the traditional

# Firmer plans to start downstream industry

Petrochemicals

SUE CAMERON

PLANS TO develop a petrochemical industry in the Middle East have taken on a new impetus during the last two years-so much so that European producers are becoming seriously worried about the prospect of additional competition in their own markets.

The possibility that Middle Eastern countries would want to use their oil and gas as raw materials for making petrochemicals has been on the cards for some time. But chemical companies in the West believed there was little chance of such hopes being turned into reality for many years.

European producers knew that the oil and gas reserves of the Gulf States would give them a considerable cost advantage Ten years ago State oil companies and open that this advantage would be more than cancelled out by the drawbacks attached to setting up a petrochemical industry in the Middle East.

OPEC's national companies Chief among the many than the middle companies of the many than the middle companies.

Middle East:

in an area that is still far from being fully developed; the cost of transport to export markets;

• the difficulties of putting up petrochemical plants on green field sites: • the problems of operating such plants efficiently once they

were built. It has been estimated that in 1974 it was more economic to make petrochemicals in Europe than in the countries of the Gulf -even though the vital oil and gas raw materials cost eight times more in Europe than in

the Middle East.

But the revolution in Iran and the ensuing dramatic in-crease in world oil prices put an entirely different complexion on the whole picture. Suddenly the balance shifted so that the cost advantage of making petrochemicals in the Gulf was no at Jubail on Saudi Arabia's when it came to petrochemicals longer outweighed by the eastern coast. SABIC and production. But it was always problems of operating a Pecten Arabian, a subsidiary of

The shortage of native petrochemicals expertise in the supplies of crude. But today it is the producing countries them-• the lack of a domestic market selves that increasingly govern oil supplies.

Moreover, many Middle East states have shown no hesitation in using their oil barrel power to "persuade" Western chemical companies to set up joint venture projects. The Western companies provide part of the A joint project between Saudi cash plus the marketing and Arabia and the Taiwan Fertiliser production expertise that the Company to build \$376m of Gulf States lack. In return they ammonia and urea production receive a given amount of crude.

A considerable number of very big joint venture petrochemical projects have been agreed between Middle East countries and U.S. or Europeanbased oil-cum-chemical groups. Among them are:

 An agreement between the Shell group and the Saudi Basic Industries Corporation—SABIC -to build a \$3hn (£1.5bn) joint venture petrochemicals project

been called by the international Mobil to build a \$2bn (£775m) illustrated. But although wars, petrochemical producers of the petrochemicals complex at revolutions and coups may delay Yanbu on the Red Sea coast, some of the petrochemicals • A joint venture base chemicals deal between Saudis and the U.S.-based Exxon group worth \$1.1bn.

• Plans for Saudi Arabia to construct a \$268m methanol plant in conjunction with a Japanese consortium headed by

capacity.

An agreement between Qatar and the French-based CdF Chimie to build a basic petrochemicals\_plant and a plastics plant. The two plants are believed to be nearing com-

and a Japanese group to build a \$3.5bn petrochemicals plant at Bandar Khomeini on the Iranian Gulf coast. This project was 85 per cent completed before the overthrow of the Shah; work on it then stopped.

The halting of work on the

schemes that are being or have

a few years at most. the region should not eventually become a major area for petrochemicals production based on comparatively cheap and plentiful supplies of oil and gas feed-

Opportunity

Apart from anything else, it is in the interests of the Western oil and chemical companies to ensure that developments now being planned go ahead. Shell Oil U.S., for example, is expected to obtain about 200,000 barrels a day of • An agreement between Iran crude from Saudi Arabia as

part of its \$3bn petrochemical project deal. And Shell, like the other major oil companies, needs firm supplies of crude.

Joint venture deals, like the one agreed by Shell, also give stern companies some oppor-

ronger outweighed by the eastern coast. SABLO and problems of operating a chemical business in the region. The Iranian revolution also the project will be built by highlighted and intensified the changing balance of power in the oil markets of the world. Hitherto the tune had always Saudis and the U.S.-based Iran last month once again western companies some opportant Rhomeini project pintunity to control the impact of Gulf petrochemicals production on their own markets. Some of the Middle East—the region is politically unstable, as the outpolitically unstable, as the

The Gulf States will be able to use the gas ethane as a raw been planned, they will do no material for making ethylene more than postpone them for —the so-called building block of the petrochemical industry It seems inconceivable that used to make a wide range of the region should not eventually things from plastics to solvents —and this is a more economic and efficient feedstock than the oil-based naphtha. It is significant that most of Europe's producers rely on naphtha—and imported naphtha at that—for manufacturing their petrochemicals at present.

To date, countries like Saudi Arabia—and before the revolu-tion, Irau—have led the Middle East in planning petrochemicals development. But other countries in the region are certain to bring more base chemical schemes of their own to the drawing board during the next few years.

The result will be to turn the Middle East into a major centre of petrochemicals preduction. By the same token it is likely to push some European chemical companies further downstream into the production of more specialised chemicals such as agrochemicals. pharmaceuticals and speciality sponsible plastics and intermediate pro-by the ducts.



Oil Services BY A CORRESPONDENT

THE WAR between Iran and Iraq presents the companies servicing the Middle East oil industry with an unhappy para-dox. No company can derive much pleasure from hearing that 30 or even 50 years of its work has been destroyed. Yet the end of the quarrel is likely to produce a major work boom as the combatants struggle to restore their production and finances. The major oil com-panies now hold no direct stake in either country, which means that the national oil companies of both are dependent on outside contractors for most of their equipment and many specialist skills.

Since the first oil crisis in 1973/74 the nature of the exploited largely as they saw fit the oil majors have become oil resources on the other.

more personnel working in the usually have a limited number Middle East than when it of company-owned rigs and owned the concessions.

as direct involvement usually such as cementing, perforating, brings an entitlement to crude wirelining, acidising and flow everything was running the way supplies the majors can now testing — are all activities of the service companies. The

In personnel the service comcome about in two phases. Immediately after World War II oil production started to rise rapidly and the increasing importance of the U.S. oil majors in its development brought with it their tradition of subcontracting to specialist companies. The second phase came with the growth of national oil companies which because of their lack of trained personnel were forced to rely on specialist subcontractors in every aspect of the industry.

## Intensity

Use of subcontractors and service companies varies from country to country depending on the intensity of development industry in the Middle East has activity. Some generalisations changed out of all recognition. can however be made. For From being owners of concessions which they developed and supplying the largely on their case they are the contractions.

Producing countries somecustomers on the one hand and times have several surveys and service companies developing their interpretations done by different companies. Long gone When the change first occur-red it was widely viewed as companies had the experience disastrous for the oil companies. and technology to prospect an In fact it has been anything but area. Drilling is now dominated that One of Shell's managing by contractors both onshore and directors noted recently that offshore, though as in geothe company currently had physical work the oil companies

\_\_\_ Indications are that present The range of services \_\_\_ arrangements are profitable and associated with production\_\_\_\_

The Fatch Field, centre of Dubai's offshore oil operations. This self-contained

unit houses 150 men

panies operating in the Middle although production in the East considerably outnumber Middle East is nearly three times the oil companies. This has that of the U.S., drilling activity is less than a tenth of the American level.

Currently there are around 3,500 rigs (800 more than in 1979) drilling for oll and gas onshore and offshore in the U.S. while in the whole Middle East there are less than 200. This big home market is enough to ensure market domination by the U.S. oil service companies for drilling contractors, drill-bit suppliers and all the other services that go with drilling a

One of the most important effects of developments in the North Sea has been to give European manufacturers and suppliers a home market base from which to break into the highly lucrative markets such as the Middle East. Design of oilfield layouts and exploitation systems are still dominated by the oil companies but the supply of equipments and materials is dominated by the service indus-

Although local fabrication capabilities are increasing throughout the Middle East, all valves, wellheads, BOPs and the like are manufactured in the U.S., Europe or Japan. Similar considerations apply to down-stream activities like refining. petrochemicals, crude loading facilities and gas handling equipment.

Before the Iranian revolution and the current war it would not be an overstatement to say that everything was running the way

dominantly American and it is massive assistance from important to appreciate that Western-dominated oil supply companies. The traditional oil companies' relationship with the producing States was such that the latter were keen to have either a second opinion or an alternative route to reliance on the oil companies. This alternative route can be summarised as building up their national oil low levels of production. companies, contracting in skills they have yet to acquire and using local companies wherever and whenever they had the necessary capabilities.

The construction boom across the Middle East has produced a Jarge, mobile, semi-skilled workforce operating across the entire area. It consists of many nationalities, though it is predominantly Arab and/or Muslim, Palestinians, Syrians, Jordanians. Yemenis, Pakistanis and Indians are numerically the most important groups. When it comes to highly skilled technicians the area is less well supplied with most of the senior personnel coming from the U.S., Europe and Japan. At the intermediate level increasing numbers of technically trained Arabs are now available for work in the area, the first generation to receive modern Western technical education and

Production levels in the Middle East were static or declining even before the present conflict. The fact that governments have predominantly stabilised or reduced production levels has not, however reduced exploration and ever, reduced exploration and development work. The reason for this is that in addition to seeking the exact size and extent of their reserves, governments are keen to ensure the most efficient and effective development of a finite resource.

now coming on to the job mar-

The biggest single project in the history of the Middle East is the current \$20bn Saudi gasgathering scheme and associated with it the trans-Arabia pipeline and the refining and petro-rhemical complexes at Al Jubail and Yanbu. Although the enormity of the Saudi proiects prershadow others in the Middle East plan to collect and evoloit their associated and non-associated, gas reserves. Abu Dhabi is actively developing some of its smaller offshore oilfields while Qatar is planning the development of the massive Come offshore gasfield.

look back on the upheavals of the mid-seventies with companies. The latter are predominantly American and it is massive assistance from the area and a major market for the area and a major goods and services. Its future at and flying them out as they are the moment is clouded with unrequired. This route minimises certainty but the cost of the war must mean that it will try to has become demonstrably more restart oil exports as quickly as unstable. possible. For exactly the same reason Iran is likely to become a market for oil industry services even to restore relatively

> Oman, whose production had been in decline, is linking in the reserves of the south of the country and recent drilling suc-cess means that production will rise. Some of the smaller emirates which currently have no oil or gas production are actively exploring in the hope of emulating their rich neigh-

## Kev areas

There were three key areas in the Middle East which have been used by servicing and contracting companies as bases. The facilities established in Saudi Arabia and the United Arab Emirates (predominantly Abu Dhabi) are still active but those in the third area, Iran, have had to be written off following the revolution. This loss has naturally made the companies more circumspect about important but slowly growing investments in the area and

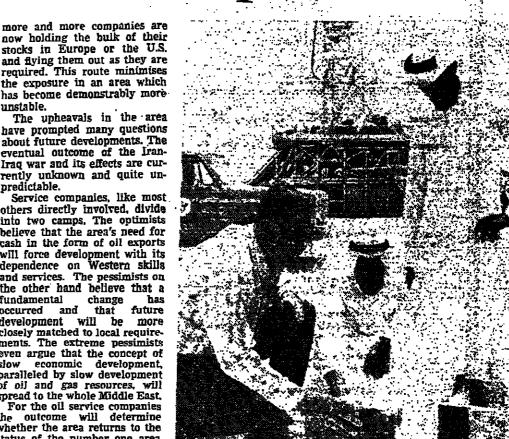
the exposure in an area which

The upheavals in the area have prompted many questions about future developments. The eventual outcome of the Iran-Iraq war and its effects are currently unknown and quite unpredictable. Service companies, like most

into two camps. The optimists believe that the area's need for cash in the form of oil exports will force development with its dependence on Western skills and services. The pessimists on the other hand believe that a fundamental change has occurred and that future development will be more closely matched to local requirements. The extreme pessimists even argue that the concept of paralleled by slow development of oil and gas resources, will spread to the whole Middle East, For the oil service companies the outcome will determine whether the area returns to the

status of the number one area

for expansion or becomes an



## An Aramco employee shows a drill bit to Saudi visitors at a ria site

# Refineries dragged into the list of war targets

Security

PATRICK COCKBURN

IRAQ'S ATTACK on Iran was what everybody in the Gulf most feared. For the first time two major oil producers were at war and did not hesitate to attack each other's oil facilities. Within a week Iraqi shells were raining down on Iran's main refinery at Abadan. The Iranians replied in kind, jet bombers zeroing in on refineries, pumping stations and loading

decided to keep out of it. Arabia. Everybody had too Having examined the various much to lose from a conflict in political alternatives open to such a crucial area.
their small and militarily vul-

In part the relative calm with which the news of war was which the news of war was received was a result of the traumas which oil producers and consumers had been through in the two years since strikes first crippled the Iranian olifields in the last months of he Shah. Iranian crude exports had slumped to 700,000 barrels a day in April. Stocks in the West were high.

But the importance of the war on future views of the security of oilfields in the Middle East lies in the fact that oilfields are no longer sacrosanct. It had been argued that the comment of energy Cold. that the economy of every Gulf State is so dependent on oil that nobody would wish to attack an enemy's oil produc-tion. A counter-attack was too

## Support

In the early 1970s, for instance, and particularly in 1974/75 Iran and Iraq were on the point of war because of the Shah's support for the Iraqi Kurds. Iranian artillery provided tactical support for the rebels. Mr. Saddam Hussein, now President of Iraq, made it clear that while he might well lose a war against Iran he would still fight to the last round and if defeated he could take the Iranian oil facilities in Khuzestan province with him It was noticeable that the Shah restrained the Kurds he backed

from attacking the Iraqi oil-fields around Kirkuk.

Other examples can be found. The Israelis did attack Syria's Banias refinery in 1973 and before then the Examination and before then the Egyptians had lost their Sinai fields. But t was still a common joke in Syria that the safest place during an Israeli air raid was under Tapline. Oil, so popular wisdom went, was sacrosanct.

Oil was too important to be left to the generals. Immediately after the 1973-74 oil price rises U.S. Secretary of State Dr. Henry Kissinger made hawkish noises about occupa-tion of the Gulf oilfields, though further investigation revealed that the threat was largely rhetorical and that the one place where the U.S. had the capacity to intervene militarily, the Saudi fields, could be very badly damaged by the time they arrived.

The threat which currently worries the West most is not the medium-term absence of oil from Iran and Iraq, although this is clearly stiffening the price levels which the OPEC hawks were finding difficult to hold. Immediately after the war began eyes turned once again to the Strait of Hormuz.

The threat to the Strait has How far, then, is there a real world does not solve this become something of a political Soviet threat to the Guif? The problem. cliche over the past two years. evidence for this is the inva-But it is no less potent for the fact that the problem has been argued over so endlessly. The Iranians can still, if driven to desperation, simply announce the mid-1980s, This is slender that they will try to stop or evidence. Control of some attack the next oil tanker passing through the Strait. It does not matter whether they have sufficient mines or artillery batteries to prevent all tankers getting past. The threat alone will increase tanker insurance to the point where the premium would become too high to

pumping stations and loading systems from Basra to Kirkuk. Yet four weeks after the war began the results had not had the immediate, catastrophic effect which might have been catastrophic effect which might have been considered of the Gulf producers of the cold it payed to Saudi carry. predicted. Other Gulf producers in the aid it gave to Saudi

their small and militarily vulnerable States, Saudi Arabia and the others decided, as they have so often done in the past, to do nothing.

Washington was hopeful of the restraint shown by the Soviet Union in the first week of the war. Moscow already had of the war. Moscow already had of the war. alliances with Syria and Irao. although a war of words continues between the Soviets and Tehran. It is difficult however. to believe that the Iranians will be able to conduct a prolonged war, as they have sworn to do, and at the same time maintain

attract the Soviets and Afghan-istan is not a good staging post from which to attack through Iran. The road systems run north/south not east/west.

## Lagerness

For Arab rulers in the region Washington's claim that the Russian bear is about to march south to the waters of the Gulf has not won many friends. Local rulers are wary of Western powers showing undue eagerness to defend them, particularly since the West's need for Gulf oil is so much greater than the Soviet Union's. When President Carter announced his intention to defend the Gulf at the beginning of the year Kuwait and the other small of the start and

began to get extremely worried. The problem for the oil producers is that with the excep-tion of Iran and Iraq none of All the arms purchases which

Saudi Arabia and Libya have not enough to make up for a small population. Technical skills are too thinly spread to allow for independent air forces -not reliant on Western technicians-to operate. The U.S. air force has its own considerable problems in maintaining its aircraft.

The weakness of the Iranian armed forces in the fighting has been less the will or the capacity to fight of its armed forces but the weakness of its logistics. This is partly the result of purges but is probably equally true of the armies of other oil producers. Endless red tape, incompetence, corrup-tion and too much equipment makes it extremely difficult for any army to obtain the supplies from its own reserves to fight a prolonged war.

During the Iran-Iraq war there is little the other Gulf producers can do except desperately try and avoid involvement. Difficult though their position is they can at tion that internally the Gulf States have remained stable them can put into the field a and the outbreaks of sectarian considerable army. None can violence sometimes predicted face aggression from outside in the Western media have not

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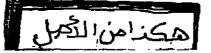
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## **Rand Mines Properties** Limited

. (Incorporated in the Republic of South Africa) A Member of the Bariow Rand Group

1. CONSOLIDATED PROFIT AND DIVIDEND The audited consolidated results of the group for year ended 30 September 1980, with the 1979 comparative figures, were as follows:

Turnover	1980 31 888 000	1979 21 398 000
Profit before taxation Taxation (Note (1))	9 305 000 3 003 000	4 899 000 627 800
Profit for the year after taxation	6 302 000	4 272 000
Less: Profit attributable to outside shareholders in subsidiary companies	33 000	21 000
Consolidated profit after taxation	6 269 000	4 251 000
Less: Dividend No. 13 of 24 cents per share (1979- 17 cents per share)	2 977 090	2 109 000
Retained surplus for the year	3 292 000	2 142 000
is based	12 403 337	12 403 337
taxation  Not included in the above results are the following:	50.5 cents	34.3 cents
Surplus on sale of investments and properties held as fixed assets (Note (2))	4 869 000 (750 000)	=
Cost of control of acquiring outstanding shares in a subsidiary company written off	_	(89 000)
Notes:		

(1) The higher effective rate of taxation as compared to the 1979 financial year is primarily attributable to a lower level of non-taxable income being receive

(2) During the year the group has disposed of its investments in Midsteel (Proprietary) Limited, Barwing Properties (Proprietary) Limited, Transvaal Gold Mining Estates Limited and Northcliff Erf Thirty-Two (Proprietary) Limited for a total consideration of R9 034 000 of which R5 256 000 has been received in cash and the balance is repayable over three years. The surplus on disposal of these investments amounted to R4 733 000. In addition Thesen and Company (Proprietary) Limited has sold certain properties held as fixed assets for R272 000 in cash, which is R136 000 in excess of book value. The total surplus on the sale of the above assets will be recorded as an extraordinary

item in the annual financial statements. (3) The balance of the Thesens timber rights valued at R750 000 has been written off

as a prior year adjustment, which is a change in the company's accounting policy. (4) The annual financial statements will be mailed to shareholders on or about 24

DIVIDEND DECLARATION Notice is hereby given that dividend number 13 of 24 cents per share has been declared psyable to shareholders registered in the share register of the company at the close of business on 21 November 1980.

The transfer books and registers of members of the company in Johannesburg and the United Kingdom will be closed from 22 November to 30 November 1980, both days inclusive. Dividend warrants will be posted on or about 12 January 1981 to shareholders at their registered addresses or in accordance with their written instructions received up to and including 21 November 1980.

The dividend is declared in the currency of the Republic of South Africa. The rate of exchange at which the dividend will be converted into United Kingdom currency for payment of the dividend from the office of the United Kingdom Transfer Secretaries will be the telegraphic transfer rate of exchange between Johannesburg and London ruling on the first business day after 31 December 1980.

In terms of the South African Income Tax Act 1962, as amended, non-resident shareholders' tax of 15 per cent has been imposed on dividends payable to: (a) persons other than companies, not ordinarily resident nor carrying on business in South Africa, and

(b) companies which are not South African companies and are not carrying on business in the Republic,

and the company will accordingly deduct the tax from dividends payable to shareholders whose addresses in the share register are outside South Africa.

3. SAND RETREATMENT Further to the announcement contained in the company's interim report to members published on 7 May 1980, we advise that the retreatment of material on the Crown Mines property will be conducted by a newly formed company named Rand Mines Milling and Mining Company Limited, which is a wholly owned subsidiary of Crown Mines Limited. The new company will be recognised as a post-1966 gold mine for income tax

purposes. Capital allowances granted to post-1973 gold mines will also apply. An additional 10 million tons of treatable material has been identified on the Crown Mines property bringing the total tonnage to be retreated to approximately 60 million. The capital expenditure required to establish the optimum size operation, estimated at R40 million at May 1980 prices, will be financed from internal cash resources and from arranged borrowings of R40 million.

It is estimated that commissioning of the plant will take place in the financial year ending 30 September, 1982 and that full capacity operation will be achieved during the 1983 financial year.

For and on behalf of the board D. T. WATT A. B. HALL Directors J. R. FORBES

31 October 1990

Registered Office: Off Main Reef Road Crown Mines, Johannesburg 2092 (P.O. Box 27, Crown Mines 2025)

United Kingdom Transfer Secretaries: Charter Consolidated Limited P.O. Box 102, Charter House Park Street, Ashford Kent TN24 SEQ

Transfer Secretaries: Rand Registrars Limited Second Floor Devoushire House 49 Jorissen Street Brazmiontein

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## **WEEK'S FINANCIAL DIARY**

finals. The sub-divisions shown below are based mainly on last

year's timetable.

Glossop (W. and J.) 1.576p
HA 12
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HA Finals: Allied London Properties Arenton (A.)

St. George's Launery
Scottons
Sketchiev
DIVIDEND & INTEREST PAYMENTS—
Associated Book Publishers 2.8a
Belfast BippRed, 1977-80 34pc
Cillione's Dairies and A 7.25a
Estates Property Inv. 3.75a. Ne.
1.782787b
Guinness Peat 4.25pc
Marier Estates 1p
Wallen
Wallen
Wallen
Pap
Willis Faber 3.8pc
Weinesday, November 5

Vadin 1.5p Vills Faber 3.8pc WEDNESDAY, NOVEMBER 5 COMPANY MEETINGS— riest Marians. Oakhill House, Milden-borough, Tonbridge Kent, 4.30 Stern, 85-88. Clerkenwell Road, EC Zetters. 86-88. Cierke 11-30 80ARD MEETINGS-

BOARD MEETINGS—
Final:
Bellway
Interims:
Capper-Neill
Hill iPhillip inv. Tst.
London Tst.
Mountriew Estates
Sensbury U.J
Usher-Walker
Warner Hohdays
DIVIDENO & INTEREST PAYMENTS—
Albany Inv. Tst. 0.6p
Berwick Tat. 0.6p
Compand European 0.7p
London and European 0.7p
London and St. Lawrence Inv. 0.56p
Neil Ujames 1.4p
Scottlab Northern Inv. Tst. 1.2p
Sharbe and Fisher 0.55p
THURSDAY. NOVEMBER 6
COMPANY MEETINGS—
Celik Haven, The Offshore Centre. Pier
Road. Pembroke Dock, Dyfed, West
Wales. 12.00
Sizewell European Inv., 20. Birchin Lane.
EC. 12.30
Tor Inv. Tst., 6. Caer St. Swansea, 10.15 CUMPANY MELINGS—Centre. Pler Road. Pembroke Dock, Dyfed, West Weles. 12.00 Sizeweil European Inv., 20. Birchin Lane. EC. 12.30, 6. Caer St. Swansea, 10.15 Westminster and Country Props. Windrester House. 100. Did Broad Street. EC. 12.00 BOARD MEETINGS—Pinzik;

Wemyss Inv. Interims: Airflow Strea

DIVIDEND & INTEREST PAYME Amalgamated Metal Corp. 3p Arndale Property Tst. Ls. 3-upc Astoc. British Foods Db. 3-upc

# plant sold

WHITE Consolidated Industries of the U.S. has formally completed its purchase of the Mackadown Lane, Birmingham, machine tool manufacturing complex from Alfred Herbert. The company is now trading as White-BSA Tools Limited.

an sales of \$2bn last year—took its first financial interest in the the largest American manufac turers of machine tools.

## MSC 'should pay for training

Training Board wants the Man-power Services Commission to continue paying the operating costs-mainly salaries-of each industry's ITB.

says if the Government accepts

## Canberra force to be reduced

announced yesterday that it had decided to reduce the number of Canberra aircraft in service with the RAF.

number and amalgamated.

## Tax refunds

THE Value Added Tax (Repayment to Community Traders) Regulations 1980 will come into operation on January 1. subject to approval by the House of Commons. They provide for the refund of VAT incurred by registered taxable people in EEC member states other than in which they are

CUSTOMS and Excise has

The following is a record of the principal business and financial engagements during the week. The Board meetings are mainly for the purpose of considering dividends and official indications are not always available whether dividends concerned are interims or

finals. The sub-divisions shown year's timetable.

COMPANY MEETINGS—
Downing and Milk Chamber of Commerce.
75, Harborne Road. Birmingham. 12.00
Estates Property inv. Armourer's Milk of Coleman Street. EC. 12.00
Ferry Pickering. Allen House. Newarke Street. Eckester, 12.00
Marier Estates. Hyber Park Hotel, Knightsbridge. SW. 11.30
Milk and Allen. Winchester Mouse 100.
Old Broad Street. EC. 12.00
Shift Pirat. Midsand Hotel Peter Street.
Manchester. B.30
MOARD MEETINGS—
Roads

Interhas:
Ambrose Inv. Tst.
Bradford Property Tst.
Clarke (Clement)
Continental and Industrial Tst.
Polymark Intol.
St. George's Laundry

# Herbert tools

WCI-which earned \$62.9m machine tool industry in 1964. After a number of major acquisitions it has emerged among

THE Engineering Industry

It opposes the recommenda-tion in the MSC's review of the Employment and Training Act 1973 that industries should pay the costs after a brief transi-tional period. But the board the recommendation then the transitional period should be

THE Ministry of Defence

Two photographic and reconnaissance squadrons based at RAF Wyton will be disbanded and other squadrons reduced in

registered.

## VAT leaflet

issued VAT leaflet 727/4/80, which explains the special procedure available to pharmacists using a VAT retail scheme described in Customs Notice

Parallel Par

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Wilmol Streeten Db. 3 apc
SUNDAY, NOVEMBER 9
DIVIDEND & INTEREST PAYMENT
Southware Supered. 1983-86 33apc

1979/80

The Holdenide Takushaka Bank Limited • Italian Internation

Instituto Nacional

Cooperación Educativa

Venezuelo

US\$ 75,000,000

Short-Term Loan

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Commendation me Bruxelles Lombert S.A. - Bertiner Handels- und Frankfurjer Bank

The Hokkeido Trikushoku Bank Limited - The Mitsubishi Bank Limited

Pleason, Heldring & Pleason (Curaçon) NV. • The Scritting Bank (Europe) S.A.

Provided by

Bank af India, Paris Bianch - Sanque Bruselles Lambert S.A. - Sanque Française de Crédit International Limited inst Handels-und Frankhurist Bank - Crédit Communcial de France - Genossenschaftliche Zentraßemk AG, Vienna

dinant-Sonk Zirich • Plasson, Helbring & Plasson (Curação) NV. • The Saltania Bank (Europe) S.A. Union Méditerrunéenne de Banques • The Tasuda Trust and Banking Company Linited

Crédit Commercial de France

estici Bank (Saudi Arabia) • The Yasuda Trust and Banking Company Limited

ise • The Mitsubishi Bonk, Limiled • The Notional Commercial Bonk (Sandi Archia) Bohran

It was resolved at the Annual General Meeting of Norsk Hydro as, held in Oslo on October 31,1980 to pay a dividend of 12 per cent on both ordinary and preference shares.

**Year of Consolidation** 

It was further resolved that with effect from January 1st, 1981 the company's financial year shall commence the first of January and end on December 31st so as to be concurred with the calendar year The following are key points of the report of the Directors for the financial vear ended June 30, 1980.

## Financial Results

Total Group sales in the 1979/80 financial year were N.kr.141 billion 1 billion - 1000 million), 55 per cent higher than the preceding year. The increase was due first and foremost to the marked rise in prices for oil and oil products during the year, but the growth in the volume of oil and gas produced from Eliotisk and Frigg was also a significant factor. During the year both these helds reached what is expected to be the peak level of production.

The most important of the company's energy-based industrial products such as light metals and tertilizers also obtained higher prices on international mari ets.

The Netherlands: Belgian fertilizer company NSM contributed rather more than one billion knoner to the increase in turnover. Depreciation rose from N.kr. 1174 million in the previous year to N.kr. 1,604 million for 1979/80. The operating profit after depreciation increased from N.kr. 116 million to N.kr. 2.461 million this year. Net manerial costs increased from N.kr. 749 million to N.kr. 903 million and profit before year-end adjustments and taxes was N.Ar. 1,467 million for the year compared with N.kr. 339 million the year before. Tavation has risen to N.kr. 444 million this year, an increase of N.kr. 368. million compared with the preceding year. After taxes, before year-end adjustments, the net profit for 1979/80 was NJx: 1,114 million compared with N.kr. 291 million last year.

## Operations 1979/80

From the spring of 1979 onwards prices and marketing conditions for our main products improved rapidly a trend which continued through most of the 1979/80 financial year.

The upstable world political situation, not least in Iran contributed to this trend, which in many respects recalls what happened in connection with the 1974 oil crisis. As a result of the accelerated demand and the build-up of customers' inventories, the market reacted during the spring of 1980, with reduced demand and for many products also a tendency towards falling prices. This was particularly marked in the USA, but towards the end of the financial year the trend also became apparent in Western Europe.

## Nitrogen

As a whole, the financial result for the company's Norwegian fertilizer operations was approximately in line with that for the previous year. he most important event on the tertilizer sector was the purchase of the Netherlands/Belgian fertilizer company NSM. This took place in the autumn of 1979, and in its first financial year as a Hydro-owned company NSM achieved good financial results. The purchase of NSM has substantially strengthened Norsk Hydro's position as a large international fertilizer producer, and has made Hydro the biggest single exporter of urea, the most important fertilizer product in international markets.

## Petroleum

Of the company's nine divisions, the Petroleum Division was by far the largest contributor to the years profit. Both the Exofisk area and the Frigg held have now reached peak production of oil and gas, and this fact. together with the steep price rises for crude oil and oil products already mentioned, is the main reason, why the Hydro Group's profit was significantly better than was anticipated at the beginning of the financial

It is very encouraging that the extensive exploration in which the company has taken part over the last year has yielded promising results. There is reason to expect that block 34/10, where Hydro has nine per cent, will be declared commercial in the course of the current financial year. On several other concessions where the company is a partner hydrocarbons.

Operating results 3000 Operating profit 3000 1000 rolit belore year-end adjustment 78/79 The profit on the sale of Rafinor in 1975/76 is not included in the figures.

Oil, gas, fertilizers, aluminium, magnesium, plastics and laminates. have been found, and the find on block 31/2, where large quantities of gas were discovered in the first three wells, is particularly interesting. Norsk

Hydro has a tive per cent share in this block. In June this year Norsk Hydro started exploration for oil and gas off Northern Norway. The areas north of the 62nd parallel are very nteresting but it will take a long time, and require large investments, to investigate the possibilities on this part of the continental shelf, where working conditions can be even more exacting than in the North Sea. The work was unfortunately hampered by the strike on the drilling platforms in the summer of 1980, and it was therefore only possible to complete the drilling of one well on each of the three concessions allocated.

## Petrochemicals

Market conditions for the company's petrochemical products continued to improve during the financial year up to the spring of 1980. There was a substantial rise in prices for the products of the Bamble plants and demand was considerably greater than in the previous year. In addition, supplies of raw material from Teesside have been stable since the autumn of 1979. Altogether this meant that the Bamble plants achieved a considerably better linancial result than in 1978/79, and also somewhat better than was expected at the beginning of the year, in spile of these relatively lavourable conditions their heavy tinancial costs were still far

from fully covered. Towards the end of the financial year the weakening of the international economic situation led to a down-turn in the market, with falling prices and a fresh drop in demand.

## Light metals

Market conditions for aluminium were good, and prices for both primary metal and semi-fabricated products rose. The financial result was therefore better than for the preceding year, in spice of some production problems in the reduction plant at karmey.

For some time the company has had plans ready for expanding the reduction capacity at Karmoy by about 50,000 tonnes a year. It was decided in September 1980 to go ahead with the Karmey project. The full cost of the expansion is estimated at around one billion knoner, and it can be ready for production in 1982.

Magnesium sales remained at about the 1978/79 level. The market was stable throughout the year, but the financial result was not completely satisfactory. The main reasons for this were substantial cost increases and heavy depreciation, a result of the extensive investments which have been made in our magnesium facilities at Porsgrunn in recent years. The new production equipment has not yet reached the planned capacity.

## Finance

Investments in 1979/80 were approximately N.kr. 16 billion, compared with N.kr. 11 billion the year before. The increase of N.kr. 500 million is less than the N.kr. 850 million paid for the NSM shares which were purchased in September 1979. This transaction was financed by drawing on existing

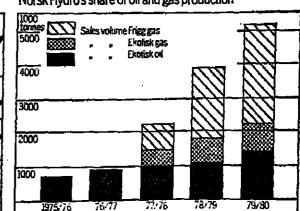
On the whole the 1979/80 financial year was one of consolidation for the The increased cash flow together with the approximately 4.20 million kroner resulting from the increase in the companys share capital at the

turn of the year 1979/80, made it possible to repay amounts on long term bank loans abroad in excess of the normal instalments of N.kr. 525 million on these loans. In the course of the firemolal year the Group's long term debt was reduced by about 13 billion kroner, and now stands at about eight billion kroner. More than two thirds of this debt was incurred in connection with the company's North Sea operations and the Bamble plants.

## Future prospects

As already mentioned, the greater part of Norsk Hydro's pre-tax profit comes from petroleum activities. The Norwegian regulations for taxation of petroleum income will take a considerable portion of this income in future years. For the 1979, 80 financial year taxes take only a comparatively limited proportion of earnings, due to the fact that it has been possible to make use of unapplied tax allowances accumulated over several years. The tax regulations will mean that further increases in oil and gas prices will have only a limited effect on the company's earnings after tax.

## Norsk Hydro's share of oil and gas production



Copies of the Annual Report can be obtained from; Norsk Hydro (U.K.) Limited, Concord House, The Centre, High Street, Feltham, Middlesex.





# Conrail draws on Federal funds as losses increase

BY DAVID TONGE IN NEW YORK

CONSOLIDATED Corporation (Conrail), the It said that carloadings in the major north-east American third quarter were 41.8 per cent work, has reported doubled quarter of 1979 for motor cars, third-quarter losses of \$79.3m, 24.6 per cent down for car it has been obliged to draw components, 28 per cent down down a further \$227m of the for semi-finished iron and steel the Government created Courail down for iron ore. The car and collapsed Penn Central railway authorised at that time.

Conrail blamed the increased losses and the 5 per cent decline in revenues to \$936.1m in the third quarter on the general business downturn in the north- lation of the railroads which is level at \$2.9bn.

RAIL east of the U.S.

freight and commuter rail net- lower than figures in the same Federal funding approved when shipments, and 48.3 per cent the industries most hit by the Conrail, who is retiring this year, says volume trends gradually improved in the third quarter and this process is continuing.

He also welcomed the deregu-

east of the U.S.

It said that carloadings in the third quarter were 41.8 per cent law by President Carter on October 14.

Mr. Jordan, who is to be replaced by Mr. L. Stanley Crane, former chairman of Southern Railway, the Washington-based company, says this Act will allow railroads to comout of the wreckage of the steel industries have been among pete, as their suppliers and customers do. According to an company in 1976. It has now business downturn, but Mr. estimate, one of its effects will drawn \$3.1bn of the \$3.3bn Edward Jordan, the chairman of be to increase rail companies' revenues from coal freight by \$150m next year.

In the first nine months, Conrail's losses totalled \$203m, compared with \$130m a year earlier, while revenues were

# **BCCI** in Zimbabwe venture

BY OUR FINANCIAL STAFF

BCCI HOLDINGS (Luxem- of training Zimbabweans in all brainchild of Mr. Agha Hasan agreement to establish a joint venture commercial bank in all levels of management in the Zimbabwe—the first new bank in the country for more than 20 years. The bank will issued and fully paid-up capital national bank — the Bank of S (Zimbabwe) 6m (about America — is currently investigating the possibility of taking Spating the possibility of taking said that although the Government would have a "significant shereholding" in the new bank. Shereholding" in the new bank. The Bank of it would still be subject to America has had a team in existing banking legislation in the normal way. The bank will encourage business enterprise Our Banking Correspondent ago Unat relationship became ago Unat relationship uneasy. In July this year it in the South is holding BCCI bas strong Arab connections, and was initially became ago Unat relationship uneasy. In July this year it in the Unasy. In July this year it in the or it is holding. encourage business enterprise

BY COLIN MILLHAM

Technically the money market was in comfortable surplus for most of last week, but on occa-

sons one or two houses found emselves short of late balances

after picking up money very easily for most of the day. A certain amount of indiges-tion developed because although

OTHER CURRENCIES

5 months U.S. dollars

Oct. 31

tShort term..

days notice... 7 days or...

bid 155/16 | offer 157/18

Sterling

1631.17

LONDON MONEY RATES

7 days notice... 17:18\*8 153, 1713, 17:18\*8 17:18\*8 17:18\*8 17:18\*8 163, 1713, 17:18\*8 163, 1713, 17:18\*8 163, 1713, 17:18\*8 17:18\*8 163, 1713, 17:18\*8 17:18\*

' Sterling | Local Certificate | Interbank Authority of deposits

14-181:

15 g 17

1412.146g 1370-1418

16<sup>1</sup>/<sub>4</sub> 17<sup>1</sup>/<sub>8</sub> 16<sup>1</sup>/<sub>6</sub> 17 16<sup>1</sup>/<sub>6</sub> 16<sup>1</sup>/<sub>4</sub> 15<sup>1</sup>/<sub>8</sub> 16<sup>1</sup>/<sub>3</sub> 15<sup>1</sup>/<sub>8</sub> 15<sup>1</sup>/<sub>4</sub>

Oct. 31

than 20 years. The bank will mercial bank in Zimbabwe after other countries. be called the Bank of Credit Standard Chartered, Barclays At one time be called the Bank of Credit Standard Chartereu, Balled and Commerce (Zimbabwe) International, Rhobank and America held a 25 per cent and will have an authorised. Grindlays. One other intersection of the Bank of ago that relationship became and fully paid-up capital national bank — the Bank of ago that relationship became ago that relationship became and the seale of the seale of

Our Banking Correspondent banking law.

conditions have forced houses to

reduce their books at a time when the overall banking sector was expanding, partly due to the growth of foreign banks in London.

reminder from authorities that banks must main-

asset. But the shrinking size of

Too much of a good thing

The

1948-1955 Austria... 0,8525-0,8530 Belgium... 60,49-80,69 Denmark. 5,7530-3,7540 France....

5.7530-3,105 43,30-43.45 i Germa 5.0625-5.0645 italy ... Japan

Rate given for Argentina is tree rate.

THE DOLLAR SPOT AND FORWARD

2. 31 sproad Close One month p.s. months p.s. Oct. 31

2. 4325-2.4425 2. 4360-2.4570 0.45-0.35c pm
1.9610-1.5700 1.9670-1.9700 0.40-0.50c dis nada 1.1764-1.1765 1.1764-1.1768 0.25-0.20c pm
1.9610-1.5700 2.0650 2.0620-2.0630 1.15-1.05c pm
1.910 30.46-30.61 30.46-40.48 101-9c pm 3.48 25-22 pm 3.08 Denmark 5.8615-5.8700 5.8615-5.8540 1-2-pp pm 3.48 25-22 pm 3.08 Denmark 5.8615-5.8700 5.8615-5.8540 1-2-pp pm 3.48 25-22 pm 3.08 Denmark 5.5615-5.8540 5.565-5.8540 1-2-pp pm 3.08 25-20 pm 3.08 Denmark 5.5615-5.8540 5.565-5.8540 1-2-pp pm 3.08 25-20 pm 3.08 Denmark 75.21-75.35 75.24-75.29 60-80c dis -1.16 par-40 dis -1.55 par-40 dis -1.55 par-40 dis -1.55 par-40 dis -4.570-4.2585 0.40-0.25pr pm 3.38 3.35-2.85 pm 2.50 Norwby 4.9520-4.9650 4.9565-4.9680 1.55-1.15pr pm 3.38 3.35-2.85 pm 2.50 Norwby 4.9520-4.2610 4.2570-4.2585 0.40-0.25pr pm 3.41 2.75-2.60 pm 3.09 France cden 4.2570-4.2510 4.2570-4.2585 0.40-0.25pr pm 3.78 12.50-1.00pm 3.48 Norwby 1.50-1.750-1.7540 1.750-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.56-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz. 1.7080-1.7240 1.7120-1.7730 1.756-1.51c pm 10.76 4.15-4.10 pm 9.63 Switz

FT LONDON INTERBANK FIXING (11.00 a.m, OCTOBER 31)

bid 15 3/18 | offer 15 5/18

1012-1112

Local Auth. Finance negotiable House bonds Deposits

Local authority and finance houses seven days' notice, others seven days fixed. Long-term local authority mortgage rates nominally three years 13½-13½ per cent; four years 13½ per cent; five years 13½-13½ per cent. © Bank bill rates in table are buying rates for prime paper. Buying rates for four-month bank bills 15½ per cent; four-month trade bills

1012-1112 1216-1212

**EURO-CURRENCY INTEREST RATES (Market Closing Rates)** 

U.S. Dollar

134-154

13 | -13 | 4 15 | -15 | 4 15 | -15 | -15 | 15 | 4 14 | -14 | 8

tion developed because although authorities that banks must mainmany banks were keen to lend funds to the discount market, the houses were somewhat reluctant to give it a home, as they were nearing their limits on the "multiplier." This is the ratio between the size of the book run by a house and its net asset

and Markets CURRENCIES, MONEY and GOLD

the

**Note Rates** 

32,85-32,20

20.65-10.73 4.62-4.67 2185-2280 515-520 4.98-5.03 12.09-12.81 122-180 178-1881<sub>2</sub> 10.37-10.49 4.171<sub>2</sub>-4.211<sub>2</sub> 2.43-2.45 79-82

Dutch Guilder Swiss Franc

2.24

319.334 448.412 538.519 519.558 54.575

Company, Market Treasury Deposits deposits Bilis o

Long-term Eurodollar two years 13%-13% per cent; three years 132-13% per cent; four years 131-13% per cent; five years 132-13% per cent nominal closing rates. Short-term rates are call for sterling. U.S. dollars, Canadian dollars and Japanese yen; others two-days' notice. Asian rates are closing rates in Singapore.

The following nominal rates were quoted for London dollar certificates of deposit one-month 14.60-14.70 per cent; three-months 14.85-14.95 per cent; six-months 14.80-14.90 per cent; one year 13.80-14.10 per cent.

bourg) and the Zimbabwe aspect of banking practice so Abedi, who had previously Government have signed an as to fit them "as speedily as worked with the Pakistani

At one time, Bank of America held a 25 per cent

is a licensed deposit-taker under banking law. The bank had in rural as well as urban areas writes: BCCI was formed in suoght, but failed to achieve, and will actively pursue a policy 1972, and is the fast-expanding the status of a recognised bank. exchange losses.

In recent years difficult trading the discount market in relation for secured overnight money.

to the banks has led to problems, with the houses needing to get rid of any surplus with the help of the Bank of England. This is

done by the authorities selling bills to the houses, but last week the bills offered were generally too long dated to be attractive

to the houses. The low yield on Treasury bills makes it difficult

for the houses to run them on their books at a profit.

GOLD

2,4325-2,4425 2,8640-2,8750 4,991-5,051 74,15-74,90 14,26-14,36

Another cause of market were reluctant to pay as much, indigestion was the difficulty leaving banks to carry forward for those with funds to agree surplus balances from day to with borrowers a reasonable rate day.

Gold Bullion (fine ounce)

**Gold Coins** 

\$661-663 \$334-338 \$177-181

| 177-181 | 1870ig-72ig | 18654ig-658ig | 1862ig-1653ig | 181-183 | 181-183 | 181-183 | 181-185 | 18799-802 | 18626-630 | 18750-754

£2574-259

£260.848: £258,157)

(£267-269) £136-139) £59-73) £271<sub>2-</sub>261<sub>2</sub> £2631<sub>2-</sub>266<sub>1</sub> £2651<sub>2-</sub>661<sub>2</sub> (£74-76) (£74-76)

THE POUND SPOT AND FORWARD

183.10-183.70 183.15-183.25 120-175c dls —9.66 375-455 dls 2187-2206 2187-21881, 22-41/21ra dis —2.06 201/2-21/2 dis 10.05-12.13 12.06-12.07 57-41/2 pm 5.10 124-111/2 pm 5.82 14-13 pm 10.854-10.751 10.37-10.88 25-17/2 pm 2.00 47-31/2 pm 1.512-522 514-516 32-52-75/2 pm 7.00 8.85-8.25 pm 1512-52 41-36 pm 18-32-80-33.00 32.85-32.80 18-13 gro pm 19.87 111/2-107/2 pm Belgian rate is for convertible francs. Financial Iranc 74.35-74.45, Six-month forward dollar 1.45-1.35c pm. 12-month 1.75-1.60c pm.

The fixing rates are the arithmetic means, rounded to the nearest one-sixte

of the bid and offered rates for \$10m quoted by the market to five reference banks at 11 am each working day. The banks are National Westminster Bank, Sank of

Tokyo, Deutsche Bank, Banque Nationale de Paris and Morgan Gueranty Trust.

14-17 171<sub>4</sub>-191<sub>2</sub> 191<sub>2</sub>-201<sub>3</sub> 201<sub>4</sub>-211<sub>4</sub> 211<sub>4</sub>-221<sub>4</sub> 21-23

nark 14.28-14.36 7. 14.28-14.37 14.28-14.36 14.28-14.36 14.28-14.36 14.28-14.37 14.28-14.36 14.28-14.37 14.28-14.36 14.28-14.37 14.28-14.36 14.28-14.37 14.28-14.36 14.28-14.37 14.28-14.36 14.28-14.36 14.28-14.27 12.379-1.2388-1.238-1.2388-1.238-1.2388-1.2388-1.2388-1.2388-1.2388-1.2388-1.2388-1.2388-1.2388-1.23

105g-107g 103g-11 104g-11g-11gg-11-1 12-124g 12g-12g-

0.45-0.35c pm 1.25-1.15c pm

Oct. 31

## Signs of recovery at Gotaas Larsen

By Our Financial Staff

GOTAAS-LARSEN Shipping. the Bermuda-based owner and operator of cruise liners, tankers and dry cargo ships, said in London that its net profit had increased in the 1980 third quarter. But, for the first threequarters of the year, there was a loss, against a profit for the same period in 1979.

Third quarter net was \$3m or 31 cents a share, up from \$700 or 42 cents for the third quarter of last year. Gotaas-Larsen was sold to shareholders of former parent IU International in 1979.

Revenue for the three months to September fell to \$31.7m from \$41.3m a year earlier. Revenue for the nine months was \$21.6m, down from \$29.4m a year earlier.

On a cumulative basis, the first nine months of 1980 showed a net loss of \$5.5m against ne profit of \$6.6m for the same period of 1979.

Earnings per share on the group profit for the nine months of 1980 are 6 cents, down from \$1.22 for the comparable period. Mr. Kenneth A. B. Trippe. president and chief executive, said that several elements of the company's business which belped to improve third quarter results included the fixing of a 15-year charter for its liquefied natural gas carrier, Golar Freeze, completion of the sale of the minority interest in an offshore drilling rig. the profitable sale of the very large crude oil carrier, Goler Nichu, and substantially reduced " foreign

With money freely available at 14 per cent in the morning— reflecting the reserve asset situa-

tion—bouses sometimes found that the cheap money dried up before they had balanced their books. But the banks with funds, and presumably with the

correct reserve asset ratios, were asking at least 15 per cent for late money. With the market technically in surplus the houses

(£262-263 4) (£263.298) (£263.050)

(£271-2721<sub>2</sub>) (£135-139) (£68-71) (£28-30) (£2671<sub>2</sub>-2701<sub>2</sub>) (£561<sub>4</sub>-674<sub>4</sub>) (£74-76) (£74-76)

1.97 1.06-0.96 pm 1.58 1.97 1.06-0.96 pm 4.05 7.79 9-81 pm 7.19 5.33 90-80 pm 1.70 2.96 0.64-0.59 pm 1.70 2.96 0.64-0.59 pm 1.99

10-1012

978-1018 978-1018 934-10

8.09 5\-8\s pm 1.34 29-58 dis

1.34 29-58 dis -9.66 375-455 dis -9.66 375-455 dis 5.10 124-174 pm 5.62 14-13 pm 7.00 8.85-8.25 pm 7.00 8.85-8.25 pm 11.87 111-1012 pm Iranc 74.35-74.45, nth 1.75-1.60e pm

For the convenience of readers the dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's announcements, except where the forthcoming board meetings (indicated thus\*) have been officially published. It should be emphasised that the dividends to be declared will not necessarily be at the amounts or rates per cent shown in the column headed "Announcement last year."

ı		Announce-	_	Announce-
ł	Date	ment fast	Date	ment isst
ļ		· year		ABSL
ı	AcrowNev. 6		*HembrosNov.20	Int. 53.5
ł	Akrovd and	11141 112	Hill Samuel Nov. 14	
1	Smithers., Nov. 22	Final 15.0	Johnson	
ł	*Allied		Matthey Nov. 28	Int. 3.0
۱	BreweriesNov. 25	101 20	*Kwik Save	
ļ	*Altied Insh	111C -CO	DiscountNov. 20	Ei-Al 22
l		1 2.75	*Land SacsNov. 11	
ì	BanksNov. 12	INT. 2.75		IRC. 2.0
ł	Anderson		London and	
ı	StrathelydeNov. 22	Int. 1.0	Mid. IndsNov. 8	
ı	Assoc.		"Lucas IndsNov. 10	
l	Brit. Foods Nov. 5		"Metal BoxNov. 24	int. 8.47
ŀ	ANZ Nov. 19	Final 12.0	Pauls and	
ł	*Avan		Whites, Nov. 22	int. 1.75
ı	RubberDec. 3		Powell	
ı	*BPB Nov. 15	Int. 4,0	DuttrynNov. 22	Int. 4.25
ı	⁴Ban⊧ of		Readicut IntlNov. 7	Int. 0.55
ı	ireland Nov. 6		RedlandNov. 22	
ľ	*BecchamNov. 15	int. 2.88	RenoldNov. 22	int. 2.8
l	*BootsNov. 13	1nt. 2.875	Rthsmns, Intl., Nov. 22	Int. 1.0
ı	Brit. & Comm.		Royal Bank	
ŀ	ShippingNov. 15	Int. 5.6	ScotlandNov, 29	Final 2.4
ļ	*British SugarNov. 13	Final 5.885	"Sainabury (J) Nov. 5	Int. 3.0
	Brockhouse Nov. 22	Final 2.65	*600 Group Nev. 27	Int. 2.34
	Brown (M.)Nov. 28	Final 3.826	*SketchleyNov. 4	Int. 2.8
	Burton Nov. 21	Final 7.0	Smith IndsNov. 13	Final 6.136
	Capital and		Smith (W.H.) Nov. 13	Int. 2.0
	CountiesNov. 23	Int. 1.0	TescoNov. 21	Int. 2.0
١.	Chloride Nov. 13	Int. 1.7	*UnileyerNov, 11	Int. 8.94
	Courtaulds Nov. 22	Int. 2. <b>888</b>	Wedgwood Nov. 21	Int. 1.75
	Dawson IntlNov. 26	Int. 2.0	*Whitbread Nov. 10	Int. 1.494
	De La Rue Nov. 11	Int. 6.6	*Wiely-Hughes Nov. 14	Final 6.764
	Elliott (8.)Nov. 28	Int. 5.0	action, steamer to the state of	
•	French Kler Nov. 27	Int. 0.95	* Baard meeting intima	tea. Thight
	Great Portland		issue since made. ‡ Tex	1188. 3 9611
	EstatesNov. 10	int. 1.0	issue since made. 9 Fore	rcasi.

## Public Works Loan Board rates

Effective from November 1

	Quo.		at	-		at
Years	by EIPt	At	maturity§	by EIPt	A‡	mat urity§
Up to 5	131	131	131	141	14	13}
Over 5, up to 10	13.	131	13 [	13 }	13}	13}
Over 10, up to 15	131	131	13]	13 🖁	137	13}
Over 15, up to 25	13!	131	13į	13}	13	13ģ
Over 25	131	131	13 [	13 أ	13	13}
+ Non-quota Inans B	are 1 p	er cer	at higher	in each o	ase t	han noo-
anota loans A + E	oual inst	almen	ts of DTID	сірац. ∓	керау	ment by
half veerly enquity	ifised e	ous).	ball-yearly	, paymet	its to	Incinde
principal and interes	st). § Wit	h hali	f-yearly pa	yment of	inter	est only.
T C Indon			One	menth G	ald 63	4.6-640.6

Our clients speculate, free of tax, in very small to very large amounts, on:

1. London Traded commodities, including GOLD.

2. The STERLING/DOLLAR exchange rate.

L.G. Index Limited, 73. The Chase, SW4 ONP. Tel.: 01-622 9192

CORAL INDEX: Close 483-488 (-8)

## LOCAL AUTHORITY BOND TABLE

Authority (telephone number in	Annual gross interest	pay-	t Minimur sum	Life n of bond
parentheses )  Knowsley (051 548 6555)  Redbridge (01-478 3020)	_	i-year i-year	£ 1,000 200	Year 4-5 5-6

## **BASE LENDING RATES**

BASE LENDING KAIES
A.B.N. Bank
Allied Irish Bank 16 % # Hill Samuel\$16 %
American Express Bk. 16 % C. Hoare & Co
Amro Bank 16 % Hongkong & Shanghai 16 %
Henry Ansbacher 16 % Keyser Ullmann 16 %
A P Bank Ltd 18 % Knowsley & Co. Ltd 18 %
Arbuthnot Latham 16 % Langris Trust Ltd 16 %
Associates Cap. Corp. 16 % Lloyds Bank 16 %
Banco de Bilbao 16 % Edward Manson & Co. 17 %
BCCI 16 % Midland Bank 16 %
Bank of Cyprus 16 % 3 Samuel Montagu 16 %
W -1 A 37 O 317
Town to the state of the state
Dengue du Dhome et de
to Warriage CA 1010 NOT WICH GENERAL ITUSE TO TO
Barclays Bank 16 % P. S. Refson & Co 16 % Rossminster 16 %
Bremar Holdings Ltd. 17 % Ryl Bk. Canada (Ldn.) 16 %
Brit, Bank of Mid. East 16 % Schlesinger Limited 16 %
E Brown Shipley
Canada Perm't Trust 17 % Security Trust Co. Ltd. 17 %
Cayzer Ltd
Cedar Holdings 16 % Trade Dev. Bank 16 %
Charterhouse Japhet 16 % Trustee Savings Bank 16 %
Choulartons
C. E. Coates
Consolidated Credits 16 % Whiteaway Laidlaw 161%
Co-operative Bank*16 % Williams & Glyn's 16 %
Corinthian Secs 16 % Wintrust Secs. Ltd 16 %
The Cyprus Popular Bk. 16 % Yorkshire Bank 16 %
Duncan Lawrie 16 %
Eagil Trust 16 of Members of the Accepting Houses
E. T. Trust Limited 16 % Committee.
First Nat. Fin. Corp 18 % 7-day deposits 14%, 1-month
First Nat. Secs. Ltd 18 % deposits 144%.
Robert Fraser 16 % † 7-day deposits on sums of £10.000
Antony Gibbs 18 og and under 14%, up to £50,000
Greyhound Guaranty 16 % 145% and over 150,000 15%.
Grindlays Bank
Guinness Mahon 16 % 5 Demand deposits 145%.

## RECENT ISSUES

## **EQUITIES**

p;	150 125°	High Low	5 - B EF8							
80 §15 67 §150	F.P F.P	80 70 32 26 145 92 800 180	TH'sk'th M'reye'ssap 72	=						
FIXED INTEREST STOCKS										
lasue n	Amount Paid Un Lalest Ranuno	1980 High   Low	Stock Stock	+ or						
:100p.	F.P 210 8/1 F.P. 31/10 F.P. 10/11 F.P F.P F.P	117 106 1 105 1 10	### Tintervision 7 Cnv. Pref.   112p Lee Valley Water 94% Red. Pref. 1987, 1064g Queens Moat 104% Cons Uns Ln '95-2000   114 RTZ 94% Conv Uns Ln '95-2000   114/98 S, Rhodesia 6% '78-81 Asstid. 98 Do. 44% '77-82 Asstid. 98 Do. 34% '80-95 Asstid. 29	+ 12						

## "RIGHTS" OFFERS

priue Issce			1980		Stock	Closing prices pi	+ 0	
p‡	존	9	2	High	Low		<u> 5</u> 6	<u> </u>
54 300			5/12 5/12			Argyll Foods	75 582	
115 27	F.P.	8:11	15/12	137	132	Brixton Estate Bulgin (A.F.) A	137	] [
650	F.P.		10,11	800	745	Burnett & Hallamshirei	745	
AS350 167	F.P.		421/11 <u> </u>	206	174;	CRACape Industries	148pm 206	+ 5
500		31/10   —	26,11	492	360	Commercial Bk. of Nr. East East Rand Prop. Options	850 360	—132
85 80			26/11	5pm 123	113	ElderSmith GoldbroughM'rt Huntleigh	5pm 118	
15	F.P.		=	32 115		tintervision	29 113	1
100 73 840	Nil		14,11	18pm 365	12pm 318	Lilley (F.J.C.)	13°pm 318	: <b> </b>
280 25	F.P.	17/10	7/11 26/11	370 98pm	302 F	Milis & Allen	370 83pm	+5
AL 05	NII.		=		45 pm	North Kalgurii Mines	47pm 415	-13.   -13.
80	NII	3/11	24/11 14/11	5pm	lpm	Pyke (Hidgs)		[ <del>*</del> ,
ן טונס	r.r.	11/10		515	428	Ricardo	210	T 13

Renunciation data usually last day for dealing free of stamp duty. b Figures based on prospectus estimate. g Atsumed dividend and yield. u forecast dividend: cover based on previous year's earnings. F Dividend and yield based on prospectus or other official extimate for 1979. Q Grose. T Figures assumed. ‡ Cover allows for conversion of shares not now ranking for dividend or ranking only for restricted dividends. § Placing price to public. p‡ Pence unless otherwises indicated. I Issued by tender. I Offered to holders of ordinary shares as a "rights." \* Issued by way of capitalisation. §§ Reintroduced. It issued to connection with reorganisation, merger or takeover. §§ Introduction. [] issued to former preference holders. § Allotment letters (or fully-peid). ◆ Provisional or parity-paid allotment letters. ★ With warrants. †† Unlisted security. † Dealings under special rule. ‡‡ London Lieting. ‡ Resulting from debt settlement scheme.

## BUILDING SOCIETY RATES

Every Saturday the Financial Times publishes a table giving details of

## BUILDING SOCIETY RATES

For further details please ring 01-248 8000-Exto. 606

on offer to the public

US\$300,000,000 of which USS 120,000,000 has been issued in the initial and subsequent Tranche

## Citicorp Overseas Finance Corporation Limited

(Incorporated with limited liability in the British Virgin Islands)

Guaranteed Floating Rate Notes Due 1984. Unconditionally guaranteed by

## **CITICORP**

In accordance with the terms and conditions of the above-mentioned Notes and the Agent Bank Agreement dated as of November 28, 1979, between Citicorp Overseas Finance Corporation Limited and Citibank. N.A., notice is hereby given that the Rate of Interest for the third one month sub-period has been fixed at 15% per annum and that the interest payable for the third one month sub-period in respect of US\$10,000 nominal of the Notes will be US\$116,67. The total amount due for Coupon No. 4 payable November 28, 1980, is US\$335.80.

November 3, 1980

By: Cicibank, N.A., London, Agent Bank

CITIBAN(O

1725 ..... ] —

Schrader Mingt. Services (Jersey) Ltd. P.O. Bax 195, St. Heller, Jersey. 0534 27561 Sterling Money Fd. 1610 13 10.14

J. Henry Schroder Wagg & Co. Ltd 120, Cheapside, ECZ. 01-588

Detained: 24.00 25.26 6.13 Tologo Trust Dct. 1. US\$37.50 2.40

TSB Unit Trust Managers (C.L.) Ltd.

10. Wharf St., St. Helter, Jersey (Cl.). 0534 73694

TSR Jersey Fund. 53.8 56.6 558

TSB Guerrisey Fund. 53.8 56.6 588

Prices on Oct. 29. Next sab. day Nov. 4.

Tokyo Pacific Holdings N.V. Intinis Management Co. N.V., Curacao. NAV per share Oct. 27, US\$87.83

Tokyo Pacific Hidgs. (Seaboard) N.V. Intims Management Co. N.V., Curacao. NAV per share Oct. 27. US\$63.99

Singer & Friedlander Ldn. Agents. 20, Cannos St., EC4. 01-24

## UNIT TRUST SERVICE

OFFSHORE & OVERSEAS—contd. Gartmare Invest. Ltd. Ldn. Agrs. 2, St. Mary Are, London, EC3. 01-223 3531 Gartmare Ford Memograf (C.1). Ltd. Ld/lb) 41. Brand St., St. Heller, Jerriey. 0624-73741 (GS4-73741 GB7-73741 G Richmond Life Ass., Ltd.
48, Atled Street, Douglas, I.O.M.
(x7The Silver Trust., 1294.5
Do. Damond Bd., 140.3
Irith Git Bond., 110.9
Streeten Porcett Bd., 121.37

Guloness Makon Fd. Mgrs. (Guernsey) PO Box 188, St. Peter Part, Guernsey, 0481 2350 

Japian Fued Oct. 31. pp. 359-20 73-74-74

Hamshares Fd. Migrs. (C. L.) Ltd.
P.O. See 66, Georges; 12.27

Capital Reserve Fd. 227-3 20-8

Special Sits. Fund 64.6 66.78

Int. Sopt. 4. 3015 12.77

Int. Sopt. A. 3015 12.77

Prigs on Comber 29, Mera design 1

N.V. Internemer
P.O. Box S25, Delth, Holiand
P.O. Box S25, Delth, Holiand
Esmeratib (Nr. Price) | DFSP.59 | 1+0.34 | L67
International Pacific Inv. Mignat Ltd.
P.O. Box R237, 55, Pri St., Sydney, Aust.
Javrilla Equity Tst. \_\_[A53.71 | 3.83|+0.09| 3.80 Jardine Fleming & Co. Ltd. 46th Floor, Consengte Centre, Hos

-out Floor, Cammaght
Jardhe 7 for Fd.
J.F. Japan Small Co.
J.F. Carden J.
J.F. Carden J.
J.F. Carden J.
J.F. Carden J.
J. Japan E. Pacific Cortal
J. Japan E. Pacific Cortal
J. Japan E. Pacific Roy Co.
London Agents: Rok. Fledin
Legapald Japanh Ning & Co. Tel: 01-638 5858 

LJ. Sterling Finn. B.12.20 11.27 11. Keyter Ullmann Ltd. 25, Mark Street, ECZV BJE 01-606 7070 |\$158.10 |70.95 .... | 2.00 |\$718.90 |20.80 .... | 2.00 |£178.44 |178.50 |-0.05 ...

229.56 250.76 Kleinwort Benson Group 20, Feathurch SL, EC3.

See England Fil. 28.77 K.B. Eurobend Fil. 28.77 K.B. Ser See Fd. 28.78 K.B. Ser See Fd. 28.78 K.B. Ser B. B. Ff. Hocc. 955 K.B. Intl. B. Ff. Hocc. 955 K.B. Intl. Fund. 195 K.B. Intl. Fund. 195 K.B. Serin Asset Fd. 11.71 K.B. U.S. Gowth. Fd. 11.71 K.B. U.S. Gowth. Fd. 11.55 Septen Bermude. 195 P.O. Bur 108, St. Heller, Jersey, C.I. (534 37361 Lazz Bros. Int. Cap. \_|USS1266 13.47| ..... | 0.10 

Harrangement International Ltd.
Bl. of Bermudi Bidg., Bermudi. 809-295-4000
Bds. Intl. Bd. Fd. Cog. | ILSSI 1.32
Bds. Intl. Bd. Fd. Log. | ILSSI 0.764
Prices Oct. 24. Next dealing Nov. 3. Middand Bank Tst. Corp. (Jersey) Ltd. 28-34, Hill St., St. Heller, Jersey. 0534 36281 Middand Drayton Gitl. [101.6 | 102.1st +0.3 | 11.75

01-588 AAAA 114, Old Bread St., EC2. 01-588 6464 Apollo Fd. Oct. 29 SST.172 66, 981 2.99 2.64 Integer, Oct. 15 History 2270 46, 117 67000 Sept. 30 183559 16, 18 220 Jerrey Oct. 15 16, 91 16, 18 2.20 117 Jeyr, O') Sept. 24, 5, 93 6, 25 3, 3, 49 | Siturnay, Johnstone (Inv. Adviser) | 163, Hope St., Glesgow, C2 | D01-221 5521 Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | USSA 32 | Hope St. Fd. Oct. 15 | USSA 32 | USSA 32 | USSA 33 | USSA 34 | USSA 34

Phoenix International
Phoenix International
PO Box 77, 5x, Peter Port, Guern. 0481 at
Inter-Dollar Fund. 1852.94 3.17
Far East Fund. 1852.94 3.17
Far East Fund. 1852.94 3.17
Far East Fund. 1852.95 127
John Fund. 1852.12 2.29
John Fund. 1852.12 2.29
Ster. Exempt Gilt Fd. 21.42 1.54
Ster. Exempt Gilt Fd. 21.42 1.54
Providence Capitol Life Ass. (C.1.)
PO Box 121, 5t Peter Purt, Guerney 0481 2677
Sterling Boxd Fd. 1851.01 76.4
Sterling Boxd Fd. 1851.01 1.00
Intri. Equity Fd. 1851.01 1.00
Prices at Contex 29, Next deal. November 5
Prices at Contex 29, Next deal. November 5 0481 26726/9

Union-Investment-Gesellschaft misk Postach 16767, D 6000 Frankurt 16. van Cutsem & Associates Ltd. 42, Essex Street, London, WC2 01-353 6845 PanAmer. 0's. Fd.| US\$143.61 | ..... S. G. Warburg & Ge. Ltd.
30, Gresham Street, Et 2.
Energy Int. Oct. 30. | 1854173 |
Mer. Limbel Cel. 15. | 18511/3 |
Mrs. My. Oct. 27 | 12299 | 13.014 .... 01113 Warbury Pice, St. Heller, Joy. Ltd. 7 (Library Pice, St. Heller, Joy. Cf. 053 CMT Ltd. Sept. 25 (E18.15 \* 14.51) Metals Tat. Oct. 16 (E18.14 \* 13.44) Cf. 17 (E18.14 \* 13.44) Cf. 18 (E18.14 \* 13.44) 0534 37217 Wardley Investment Services Ltd., 4th Floor, Hutchison House, Heng Kong Wardley Trest HISC2 68 27 09 Worder Mide As Fe 12329 75 39 15 Wardley Bood Trust, HISCB 30 312 30 Wardley Bood Trust, HISCB 30 312 30 Wardley Lead Trust, HISCB 35 312 3 World Wide Grawth Managemento 10s, Boalevard Royal, Lipsenbourg Worldwide Gir Fd USS34.74 |-0.02 --Wren Commodity Trust 10, St. George's St., Douglas lots Wren Commed. Tst., 143.1 43.8 .....

Approximate selling rate for one-month Treasury bills 14th per cent; two-months 14th per cent; three-months 14th per cent. Approximate selling rates for one-month bank bills 16th per cent; two-months 16th per cent; three-months 15th per cent; one-month trade bills 17th per cent; two-month 16th per cent and three-months 16th per cent. Finance Houses Base Rates (published by the Finance Houses Association) 16 per cent from November 1, 1980. Clearing Bank Deposit Rates for sums at seven days' notice 14 per cent. Clearing Bank Rates for lending 16 per cent. Treasury Bills: Average tender rates of discount 13.3334 per cent.

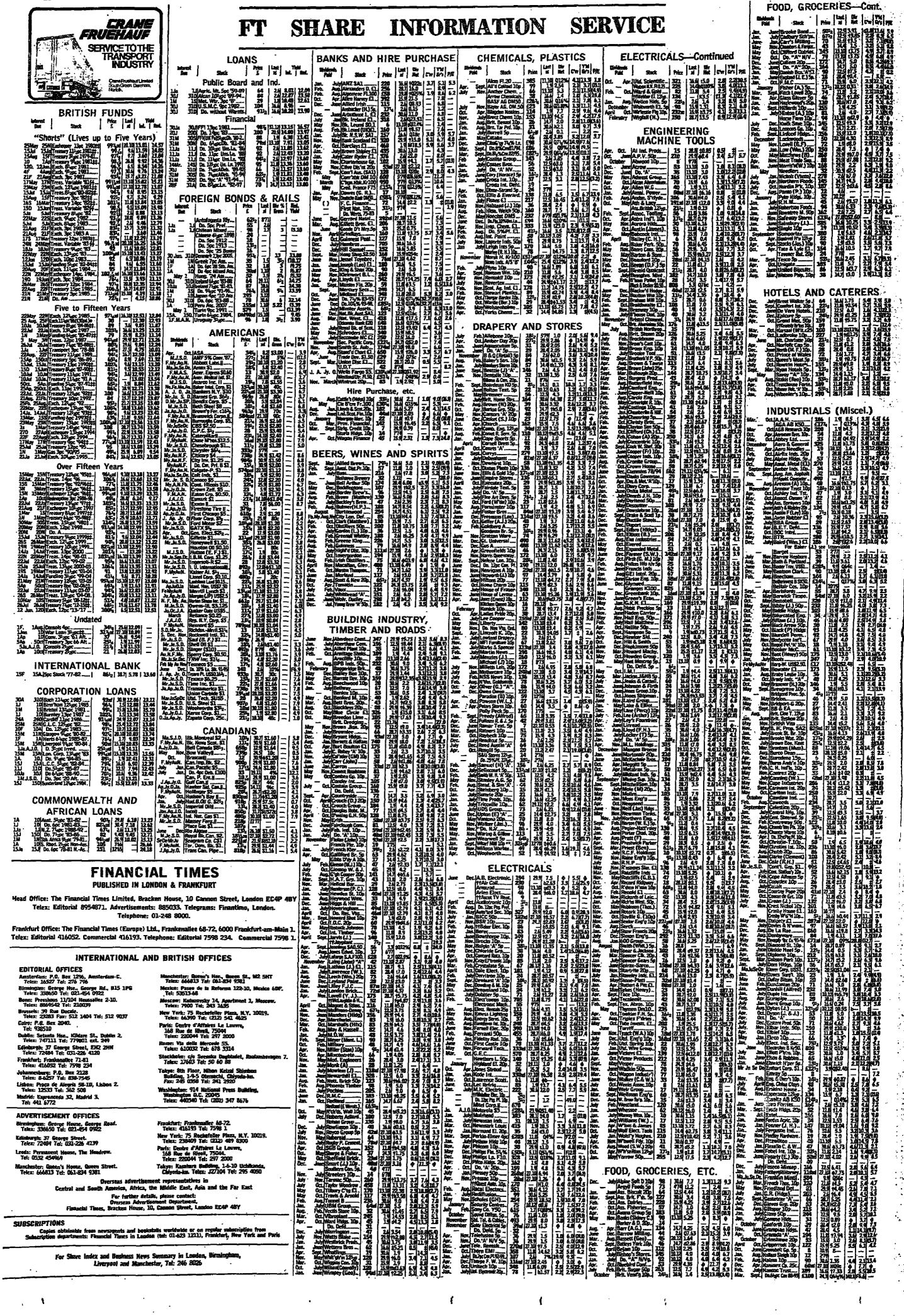
16 11 12.16 0.529074 1,29004 1,51657 Sterling.... U.S. S...... Canadlan S 0 65237 1.54724 1,58759 18,2080 41,1987 Austria Sch. 712 2,46994 8 2,66071 912 Unavail. 1612 1164,26 8,26 272,845 9 6,40698 8 97,0162 10 6,49622 2.56987 2,77775 6,92181 

**CURRENCY RATES** 

## هكذامن الكل

AUTHORISED
UNIT
TRUSTS
Shifted Mark Water and America

	AliTHODICED	Craigmount Unit Tst. Mers. [14. Boddirfbury, London ECAN 88D. 01-248 4984		Providence Capitol Life Asse. Co. Ltd. Welfare Insurance Co. Ltd.9  10 Untridge Road, W12 BPG. 01 749 9111 Windlade Park, Exeter. 03972-52155  Set. Mar. Fd. Std. 1143 9 151.8  Person Equity 171.1 183 9 For other lunds, please refer to Tite Landon & Person Fd. 112.7 124.7  Person Fd. Int. 1252 1 124.7
`.	UNIT TRUSTS	High introduce in EAH 9810. 01-288 4984 High introduce	FT UNIT TRUST INFORMATION SERVICE	Deposit Fd. Acc
i	72-80, Salehouse Rd., Aylesbury 0296 5961 Abbey Amer. Gab. Vst.   52.4 56.3 -0.4 2.58 Abbey Capital	Crescent Unit Tst. litingss. Ltd. (a)(g) 4 Meiville Cres., Edinburgh 3 031-226 4931 M & g Cres. Amer. Ed. 185 5 38 3rd -0.71 0.97	i Brunp (y)(c)(g) Scottish Equitable Fnd. Highs. Ltd. W Charterhouse Magna Sp. W Langham Life Assur. Co. Ltd.  sys, Tower Hill, EC3R 680. 01-626 4568 28 St. Andrews Sq. Edinburgh 031-356 9101. Stephenson Hee., Brunel Centre, Bletchley, Langham Hist., Holimbrook Dr., NWA, 01-203 5  ce also Stock Enthrope Dealing. (norme Units	
	Allen Harvey & Ross Unit Tet Mineur	Cres. Tokyo	Units)	Provincial Life Assurance Co. Ltd. OFFSHORE & 222 Bishopsgate, EC2. 01-247 6533 OFFSHORE & 700. Cash Fd. 1727 6 1737 6 17
•	45, Cardiall, Loaden EC3V 3PB. 01-622-6314. ANR Gill Trest 193.1 98.0 -0.4 12.39  Alited Hambo Ltd. (a) (g) Hambro Hse., Hutton, Britishand (5277) 211459	36/38 New Broad St, EC2M INU. 01-638 4485 Conversi Disc, Inc. Oct. 24[228.4 243.6]	m Inc. 774 E2 9 +0.2 55 Stewart Urat 152 Managers Little 1 (100 to 1)	Prudential Pensions Limitedo Holton Bars ECLN 2014. 01 405 9222 Albany Fund Management Limited
	O1-988 2851 or Brentwood (0277) 211459 Batanced Funds: 899,3 95,6 0.88 6.04 But, Inds. Fund. 79 6 52 0.58 5.04 Growth & Income. 50,7 52 0.58 5.13 Elect & Ind Dev. 44,3 74 60 65,13 Allied Capital. 152,7 102,4c 0.9 4.05 Handro Fund. 152,6 153,8 155,9 1.4 5.93 Mantro Arc. Fund 182,5 99,3 3ai -2.0 4.65	E. F. Winchester Fund Mingt. Lts. 44. Bloomsbury Square, WCJA 2RA 07-523 8899 Great Winchester. 11.1.4 1931 8.70 GL Winchester 07-sas. 24.8 27.6 405 Fund of Land of Land. Emson & Duddey Tst. Mingaunt. Ltd.	125   127	P.O. Box 73, St. Neiter, Jersey. Cb34 79933 Fixed Int. Oct. 15. 24 50 24 82 Albany S Fd. (Cl) [USSITE 172 3bail
	Name	Equity & Law Un. Yr. M. V (a)(b)(c) Ameritam Rd, High Wycombe. 0494 33377 Equity & Law	one	Rothschild Asset Management Allen Harvey & Ross Inv. Mgt. (C.1.)  St. Switches Lane, London EC4. 01-626-4356 1 Charing Cross, St. Heller, Joy., C.1. 0534-73741.  M.C. Prop
	Section   Sect	Fisielity International Management Ltd. (Actum. 162-63 Queen St. Loston EC4 1AD 01-248 4891 (Accum. America. 275 3231-0.7 0.95 (Accum. 1614 - Fixed Int. 25.4 26.80 - 0.2) 1218 (Accum. Acrowth + Income 151 4 33.8 -0.3 7.18 (Accum. 164 41.3 - 0.4 2.0 (Accum. 164 41.	(also 1890 COLU_09 100 COLU_09 100 A COLUMN 1890 COLUM	7/8 Rayal Shield Fd
	2nd Sank, Co's Fd. 64.8 673 - 52 433 Rectionery Sits. 134.2 143.4nd - 0.9 452 Met. Min. & C'dry72.9 78 bad - 0.5 462 Overseas Earnings69.4 74.3 - 0.7 497 Example Panduk	James Fights Unit Trust Mont. 1td. (Accum.	1725 1820m 687 Pacific Accom. 527 5977 172 Pens Git Med. Cap. 522 -0.05 543 Lloyds Life Assurance	48 4 GLSLHelen's, Lucin, EC3P 3EP. 01-554 8899 Arbuthnot Securities (C.I.) Limited
	U.S.A Esempl. 1106 115 m - 11 104 Anderson Unit Trust Managers Ltd.	J. Pistay Fd. iz. 79. 5. 42.60 5.2 Mitamud. Accum. Units 50.1 53.9 5.2 St. Georg. Prices on Oct. 29. Next dig. Nov. 5. Growth	The Management 14d. Income and Growth S018 24,9 -0.11 240 Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Way, Stevensore. 0438 56101 Professional Oct. 29, 251 9 284.4 1 4.3 -0.3 564 Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 301197.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8 8 'A' Hy Oct. 30117.3 186.7  13. Sec. First Unit Fund _187.0 196.3 +4.2 187.0 0,8	Ocpos Pers. Fd. 1 1326 1404 Bank of America International S.A.  1 Weekly Desires. 35 Boulevard Royal Librentoury C.D.  Wildingst Income
9	Anderson U.T	Amer. & Gen. Oct. 27 (67.8 72.4 11.7)   Income O. Am. T. Turound Oct. 27 (67.8 62.4 11.7)   Income O. General Oct. 27 (62.8 62.4 11.7)   Intel Oct. Capital 78.1   Intel Oct. (Accum. Units)   Intel Oct. (Accum. Units)   Intel Oct. 25.3   Intel Oct. 25.4 11.7   Intel Oct. 25.4 11.7   Intel Oct. 25.4 11.7   Intel Oct. 25.4   Intel Oct. 2	1.20   10.6   13   15.6	Enterprise House, Portsmouth. 0705 27733  Enterprise House, Portsmouth. 0705 27733  Banque Bruxelles Lambert  Enterprise House, Portsmouth. 0705 27733  Enterprise House, Portsmouth. 0705 27733  Banque Bruxelles Lambert  Enterprise House, Portsmouth. 0705 27733  Enterprise House, Portsmouth. 0705 2773  Enterprise House, Portsmouth. 0705 27733  Enterprise Ho
-	Arbethnot Securities Ltd. (a)(c)  37, Queen St. London, EC4R 18Y. 01-236 5281  Capital 34.0 36.7 42.5  Commodity [105.9 115 in +6.4 2.38  (Accumulation) [183.9 117 in +10.3 2.8	Friends' Provdt. Trust Mgrs. 9  Pudam End, Dorking. 0306 5055 Accum. U	001.27	CCM Vanoguard
	(Accumulation)	Funds ht Court*  Public Trasse, Kingsnin, WC2 01-405 4300 Sheffield Capital Dct. 30 147 5 148 5ut +8.2 4.70 Commodi Gross inc. Oct. 30 185 6 88.3 +2.5 1165 Act. Us. Mosh Visid Oct. 37 195 8 99 2 10 10 48 Overses	y & Gen. 125.1 136.8 - 1.8 3.30 Colemon Get. 5 176.3 1	Mgd. Pen. Acr. 105.7 383.5 1 Thomas St. Douglas, Kir p. Mart. 0624 4856
	Accumulation   59.0   64.2 +2.3   4.45   616.6   Fixed   44.8   47.0   -0.3   11.67   (Accumulation   47.0   47.3   47.	"Unauth, Restricted to montes order Court control. 10. Accas Capital G.T. Unit Managers Ltd.\(\psi\) G.T. Cap Income   151 2   162 5 - 11   2.50   G.T. Cap. Income   151 2   162 5 - 11   G.T. Cap. Income   151 2   162 5 - 11	341   343   -0.4   352   Faction (at 0.2 20 - 188.1   112.4   2.44   Cap. Sept. 15 - 161.0   -1.24	Prop. Pen. Can
	(B) 78 Windowski) 69,8 54,2 1,4 9,85 1436 1436 1436 1436 1436 1436 1436 1436	G.T. V.S. & Gen	15.7 61.8 -0.4 9.67 (Account Units) 52.2 50.3 2.94 Cresum Life, Wisking GUZI IXW 04962 5033. Extra income 0.1.22 101.0 10.5 10.7 10.7 10.7 10.7 10.7 10.7 10.7 10.7	Inv. Ply. Oct. 24 1453
*	Archway Unit Tst. Mgs. Ltd.♥ (a)(c) 317, High Holbern, WC1V7NL 01-831 6233 Archway Fund	G. & A	Final Managers Ltd.  Tyndail Managers Ltd.(a)(b)(c)  Final Managers Ltd.  Tyndail Managers Ltd.(a)(b)(c)  Tyndail Managers Ltd	93 Skandla Life Assurance Co. Ltd. 161-164 Fleet St. London EC4 2DY 01-353 8511  Maraget Acc
	Barclays Unicorn 12d,9 (a)(c)(g) Unicorn Ho. 252, Rondlard Rol., E7. 07-534 5544 Unicorn America	Dralling only: 01-623 5766/5906 American Trest	Street, SWIA 91G. 01-222-8177 (ROME Links) 1948 1949 1949 1949 1949 1949 1949 1949	11 See Sum Life Unit Assurance Ltd. See Sum Life Unit Assurance Ltd. See Sum Life Unit Assurance Ltd. Unit Assurance Ltd. See Sum Life Unit Assurance Ltd. U.S. Dollar Personal Ltd. U.S. Dollar Persona
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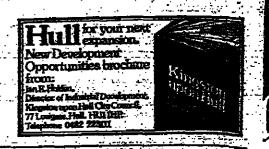
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# FINANCIAL TIMES

Monday November 3 1980



# Iran deposits in London cut by two thirds

BY MICHAEL LAFFERTY, BANKING CORRESPONDENT

IRAN'S deposits with the big London clearing banks have been cut back substantially over the past year. They are new thought to amount to £300m-£400m-shout one-third their former level.

As the deposits continue to decline the banks are becoming worried about their Iranian loan exposure, which is estimated at around £200m for the big four clearers. Bankers report that Iran is now servicing many of the loans very much in arrear.

while some are not being serviced at all.

The British manks, which have had frequent meetings with the Bank of England about the matter, will not seek to offset Iranian lending against their deposits. They may therefore have to recognise all their Iranian lending as irrecoverable in their pext accounts. Some British benks have already made partial provision for this.

The hanks are also heing more cautious about of credit in respect of

Iranian oil exports. They will only issue or confirm any other bank's letter of credit if Iran has pledged sufficient funds with them.

Under a normal letter of credit for Iranian oil exports. a bank gives an irrevocable undertaking to pay the National Iranian Oil Company the value of a shipment to one of its customers. In some cases, one bank will be required " to confirm " letters of credit issued by other banks

not acceptable to Iran. The British banks reckon new Iranian oil revenues will

dry up this month, because of the cutting off of oil exports as a result of the Gulf War. They expect that Iran's foreign reserves estimated over the past year at \$7.8hn (£2.8-3.3hn) will then begin

to deplete rapidly.
"Give or take three months, Iran will run out of ready cash six to nine months from now," commented one London banker. Another said that without some marked and unforeseen change in the country's fortunes in the near future Iran "will be ruined

Bankers in London doubt that undoing the U.S. government's freeze on \$8bn of assets with U.S. banks will do much to improve Iran's finances. They believe numerous civil actions already initiated by U.S. corporations and individuals to attach some of the funds will keep it effectively frozen for some time, regardless of Govern-

ment actions. "In any case U.S. banks will offset their lending against frozen deposits," commented a

Gang of four, Page 4

## Banks try to get gas pipeline underway

By Sue Cameron and Ray Perman

A GROUP of banks led by the Bank of Scotland and Baring Brothers has offered to buy a lay barge and start work on the new £1.1bn gas gathering pipe-line planned for the North Sea.

Their scheme would ensure that the line was made from British rather than foreign

The banks are thought to have suggested that they should raise the money to buy the Viking Piper, a huge lay barge now being used to provide acommodation for North Sea oilmen.

The barge is 75 per cent owned by the U.S.-based Santa

Fe group, while the remaining 25 per cent is held by British companies, including the Bank

The plan is understood to have the support of Mr. Ian MacGregor, chairman of the British Steel Corporation. The future of the corporation's pipe steel plant at Hartlepool may well depend on British Steel's success in obtaining the order. or at least a substantial part of

## Go-ahead

The bankers plan is understood to have been put to the organising committee set up by the Government in the summer to decide on the structure and financing of the company that will run the new pipeline. But it is believed the com-

mittee, which includes repre-sentatives from British Gas, British Petroleum and Mobil, has made no response so far. The bankers' scheme would

ensure an early start on the new line. The Government gave the go-ahead for the project in June and hoped it would be com-pleted by 1984-85.

The Government envisaged financial institutions taking a sizeable stake in the new pipeline company-probably around

30 per cent.

But the City is now said to be "jittery" about investing in it. The main reason is that nobody knows how the gases coming through the line will be priced

or who the customers will be The U.S.-based Santa Fe is believed to be keen to sell the Viking Piper, which was used to lay the North Sea Ninian field pipeline, but has since had no laving orders, and there were reports last night that the group is also talking to other potential buyers.

## $\mathsf{aune}_{l_{\mathcal{Q}}}$

She is said to be one of the few barges in the world capable of laying the 36 inch diameter line that will run for 490 miles once the gas gathering project is completed.

Much of the existing pipeline in the North Sea has been made from Japanese steel, which has tended to be cheaper than British steel. But Mr. British steel. But Mr. MacGregor has warned leaders of the Japanese steel industry that he is determined to see less of their steel used in the North Sea in future.

He is understood to have laid part of the blame for British Steel's poor performance in the North Sea at the door of the British Gas Corporation.

BY SUE CAMERON, CHEMICALS CORRESPONDENT

IMPERIAL Chemical Industries, sterling.

Britain's biggest manufacturing

company, is expected to sign a

The deal has been described were important for ICI."

but last night the group admag-

antly refused to talk about it.

will enable ICI to sell a wide

range of chemicals in Soviet

weeks-probably on Novem-

ber 17.

It is thought the agreement

# Power workers leaders draw up 20% claim

BY PHILIP BASSETT, LABOUR STAFF

POWER WORKERS' shop stew- could present the Government ards are challenging the Government's hopes of keeping public sector pay limits.

The miners, the other tradipublic sector pay increases in single figures, by fixing a target tionally powerful group, resume of 20 per cent for the power negotiations this week, but gave workers' pay increases this winter.

The last time the unofficial but influential power workers' shop stewards' committee decided on a definite target rather than an unspecified "sub-stantial" claim was in 1977, unions representing the 96,000 when industrial action in sup-supply workers. The official port of it brought widespread

disruption to electricity supplies, in the new year.

No resolution on industrial The seven-no action was taken at the shop stewards' conference in Doncaster at the weekend which

negotiations this week, but gave the debate to 20 per cent.
only a subdued response to the National Coal Board's hint that it would make only a single-

figure offer. Committee leaders will send the results of the Doncaster meeting to officials of the four supply workers. The official claim is likely to be presented

The seven-point unofficial claim asks for: a 20 per cent increase in enhanced scheduled salary rates; a 35-hour week; the drew up the seven-point claim, consolidation into basic rates of but stewards' leaders made it shift and premium payments; clear yesterday that in present- at least five weeks' annual holiing the claim to official union day; optional retirement at 60 negotiators they would assure on full pay: the official them of shop-floor backing for recognition of the shop stewards any action necessary.

Delegates to the 50-strong conference at the weekend claim, and proposed a target of 17 per cent, increased during

The agreement for the power workers' last round gave an auxiliary plant attendent a basic rate of about £80 a week, which gave average earnings of

Last week's New Earnings Survey showed the average earnings for the industry to be £131.30.

An official of the committee said yesterday the stewards had been conscious of their public responsibility, but felt the Prime Minister had to live up to her pre-election promise to end action similar to that of the 1978-79 winter.

To achieve this, the Government had to protect key public any action necessary.

The electricity supply manual tion of the membership, to inworkers—one of the most clude a national ballot, on any the coal industry, against powerful industrial groups— pay offer.

# Low limit on public sector rises

BY ELINOR GOODMAN, LOBBY CORRESPONDENT

COVERNMENT expected to try and limit pay increases in the public services sector next year to the lower taxes next spring as well as big that there are limits to what end of the 6 to 10 per cent further cuts in public spending, they are prepared to accept range implied by the monetary

But what still has to be from the Treasury.

Details of the pay assump-tions in the cash limits for next year, together with the size of Rate Support Grant, will probably be announced within the next few weeks even though it is clear that the Cabinet is a the Government should achieve its general economic objective

All Ministers seem to have succeeded in agreeing at last week's Cabinet is the need to keep within the broadest out-line of the Government's medium-term strategy, bearing in mind the constraints imposed by the deepening recession.

could mean increases in indirect But what still has to be

agreed is precisely how the Government should meet its tar- mined to clamp down on that gets. Ministers arguing against part of the public sector for further big spending cuts, on which it is directly responsible the arguing that they just even if this means facing out that that there is still a lot to play for and that the fight with the Treasury is only just beginning.

Further cuts in defence and education spending will be discussed at tomorrow's special of the Cabinet. Although Ministers who have consistently argued for a softer line on public spending were disappointed by the lack of support they got from their colleagues last week. both Mr. Francis Pym, the

There also seems to have Defence Secretary, and Mr. Mark been tacit agreement that this Carlisle, the Education Secretary, have indicated in advance

The Government is deterprolonged strikes. There will not be one single figure for the pay assumption in the various cash limits for different parts of the public services but they will probably be set within a

very narrow range. Ministers are still discussing whether the figure should be around the 6 per cent mark or around 8 per cent, But; given the pressure on public spending, the Cabinet may opt for the lower figure in the knowledge that the outcome will probably be rather higher anyway.

Continued from Page 1

## Hostages debate

aspects of the Iranian demands. that though it can meet one condition easily — the pledge of non-interference in Iranian affairs — the others entail legal and practical problems. Much. it is thought, depens on Iranian understanding of the limitations of the powers of the U.S. Presi-

The Majlis decision followed figure designated as Ayatollah Khomeini's successor, called for all deputies to turn up to votee. decision of the clergy-dominated

This reflects U.S. awareness hostages. possibility imminent release of the host-

ICI in trade deal with Moscow

Last month the group re- of the 80,000 ICI jobs in Britain

Four months ago, Mr. Denys faster rate than its home sales

and planning director, told a tive contribution to the balance

pound deal could do much to group because of the coming and construction group, has but the group said demand boost ICI's exports which have paratively small size of the UK been building two methanol for methanol was expected to

ported its first-ever loss of were dependent on exports and

last Thursday's abortive debate when there was no quorum becaus of a boycott by some of the more militant deputies. Over the weekend Ayatollah Montazeri, a powerful religious His appeal, together with the

major trading agreement with £10m for the July to September that over 33 per cent of the the Soviet Union in the next period of this year. It said its company's UK production was

to decline." largely because of

Henderson. ICI's commercial

Commons select committee on

markets. The deal is expected "consistently applied money to be signed in London in two and resources to building up ment with the Soviet Union will

Mr. Henderson said exports

overseas trade."

The reportedly multi-million were vitally important to the

been hit by the general reces- market in what was essentially

sion and by the strength of an international business.

trade that the group had £592m.

the high value of the pound.

export margins had "continued exported

Administration's reluctance to Islamic Republican Party, which entertain a phased release of has a majority in the Majlis to some of the hostages, linked to back the proposals, was sufficient to ensure that it could at last vote on the fate of the

> ages has potential, but incalculable, implications for the Presidential election tomorrow. Mr. Powell said Mr. Carter had been careful to inform Mr. Ronald Reagan and Mr. John Anderson, his challengers, as well as senior members of Congress, of the course of events. It was possible that the President would resume personal campaigning for the last 24 said Mr. Powell: otherwise Mr.

> Mondale would stand in. Mr. Reagan declined to comment on the developments but said he would continue cam-

He stressed that over 30,000

overseas trade had grown at a

in the last 10 years. ICI's posi-

of payments in 1979 had been

not be the first deal ICI has

agreed with the Russians. Davy

International, the UK engineer-

Continued from Page 1

## **Forecasts**

of the Bank

The Business School monetarist while Phillips and Drew's economists are more in the neo-Keynesian tradition.

able influence since both groups are among the advisers to the all-party Treasury and Civil Service Committee of the Commons, which today questions Mr. Gordon Richardson, the England.

The differences about the borrowing projections reflect in part the greater pessismism of Phillips and Drew about the outlook for output next yeara fall of 1.8 per cent against the 0.8 per cent decline the 0.8 per cent decline expected by the Business School. The brokers are also more pessimistic about public spending and about public sec

The £125m contract was

arranged on a buy-back basis. Buy-back deals enable countries

to pay for new plants and technology with products-some-

times from the new plant itself,

In this case ICI itself is to sell the methanol—used to make

industrial solvites and anti-

freeze-from the two new

ICI was criticised last year

when it attacked the disruptive

effect of some buy-back deals on

the West European chemical

Russian plants in Europe.

Mr. Henderson said ICI's sometimes from other plants.

plants for the Russians using increase substantially in the ICI technology.

periods in most parts.

Scotland, Orkney, Shetland, N. Ireland Dry, bright or sunny periods.

N.W. Scotland

WORLDWIDE

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				day			mid	iday
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l	Jersey	8	5	41 [	Vienna	Sn ·	-1	30
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## **BL** shop stewards to consider strike risks

By Arthur Smith,

BL CARS union leaders meet in Coventry today to decide whether to risk a strike in protest at the company's 6.8 per cent pay offer.

The BL pay deal, against the background of weak demand and extensive short-time working, had been expected to go through smoothly.

But mass meetings at the 34 lants last week demonstrated surprising shop-floor opposition with 36,400 workers voting to reject the deal, and 32,830 in

At Longbridge, Birmingham, and Cowley, Oxford, the two plants crucial to BL's future model development, and accounting for more than onethird of the labour force, shop stewards report "a determination" to gain an improved pay

## 'Immune to threats'

Stewards claim workers have Stewards claim workers have become immune to the threats about the future of BL. Their real grievance is at the erosion of living standards at a time of mounting inflation.

While many union leaders still believe a BL offer-perhaps as low as 8.5 per cent—might be sufficient to head off mili-tancy Sir Michael Edwardes, the chairman, has already made clear that "not a penny more"

But the most likely outcome of talks among the 300 senior shop stewards today is expected to be a call for further negotiations with the management.

Moves for five days' notice of strike action will meet powerful opposition. Many union leaders fear that Sir Michael would be able, with the backing of the Government, to exploit the divisions within the union movement and break any strike which was confined mainly to the Longbridge and Cowley

BL shop stewards face a test of nerve, Page 7

## Weather

DRY AND cold with sunny England, Wales, Channel, I.o.M.

Mainly dry, cloudy at first. Outlook: Mostly dry with sunny periods but cold with possible fog patches,

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Algiers	S	22	72			4	39				
Amadm.		_1		Londor		8	46				
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	S-Sunny. Sn-Snow.										

THE LEX COLUMN

# Profit puzzle in company sector

cash flow mystery continues to analysts alike. Overwhelming evidence of a severe profits slump and cash squeeze in much of industry, has simply failed to show up so far in the national income statistics.

Economic forecasters are now being forced into some highly embarrassing U-turns in their pojections for the company sector. In June, the London Business School warned of a 50 per cent fall in 1980 in the company sector's gross trading profits, net of stock appreciation and leaving out North Sea profits now running at about £8bn a year. But the October forecast, published today, indicates that profits on this definition will be

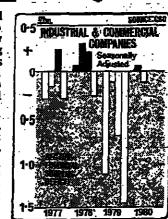
unchanged. So what happened to the collapse? Er, well, says the LBS, it will probably happen next year instead. Similar recanting is due from the National Institute, which in its May Review talked alarmingly of a 110km forestical defait in 10km. £10bn financial deficit in 1980 for the industrial and commercial company sector, though by decline has continued since mid-August this was hastily revised down to £5bn. Astonishingly, the official statisticians have now found that the sector was in virtual financial balance in the first six months of the year.

Several conclusions can be drawn from these recent developments. One is that economic models can throw up some extraordinary figures for particular sectors, probably because they are residuals derived from the impact of more realistic assumptions elsewhere in the model. One current quirk of the LBS model, for example, is that it is forecasting quite unrealistic company sector financial deficits of £13bn in

1983 and £15bn in 1984. Another more useful conclu-sion, however, is that there are currently substantial shifts in fortune going on between dif-ferent parts of the overall company sector. In particular, the manufacturing sector is suffer-ing a severe squeeze while the energy and financial sectors are prospering. Moreover there is a basic problem of definition in that the national income accounts deal with trading profits before interest payments (or receipts) while companies

and City analysts conventionally focus on the pre-tax profits line. can be paid.

The extent of opposition to the offer has undoubtedly have jumped sharply because of the rising level and cost of the rising level and cost of debt --- interest in the second quarter appeared to be absorbing a quarter of the gross UK trading profits of industrial and commercial companies — the scope for divergence becomes



That reported UK company profits are falling is plain enough. Brokers Phillips and Drew's quarter-by-quarter pro-fits series now has about 50 per cent coverage of April June, on which basis a 17 per cent decline is suggested on a year earlier. As for the third quarter, ICI has quickly set the tone by reporting its first ever loss, and the general impression

across industry is that the year although it could well be that the third or fourth quarter will mark the absolute nadir. -Forecasts for the year ahead are complicated by the way that stock appreciation is expected to be falling (this will be good for cash flow but bad for historical cost pre-tax profits)

while interest rates should also ease (so that pre-tax profits could rise even if trading profits look weak). But the opinion of brokers like P and D, and also Simon and Coates, who track these trends of aggregated profits, is that pre-tax profits will continue to show a year-onyear decline during the first half of 1981, but should begin to recover in the second six

As for the apparent financial equilibrium of industrial and commercial companies, there is a feeling that this could come in for a measure of retrospective revision given that there is a £2.45bn residual error in the first half national income accounts. Even so, the speed of response of the company sector to the financial pressures afflicting it is highly impressive.

## U.S. money supply

The speculation on Wall Street after the release of the taken money supply data on Friday basis.

night was not about whether the Divi increased but rather about when it would move up and by how

in the next few days.

Money markets are already anticipating that the Federal Reserve will raise the discount rate by at least one percentage point and there is a general expectation that prime rates will soon be 15 per cent or higher. But the timing problem is ticklish and not just because of tomorrow's election. The Treasury's very large quarterly refunding operation is also about to get under way. Seme analysis argue that the decision should be taken out of the hands of the Fed by the introduction of some form of market-related

Behind this somewhat tech nical debate lies the fact that demand for bank credit bes been accelerating in the past month or two and that in-flationary pressures are again making themselves felt in the

## CCA earnings

The Society of Investment Analysis has come out with a new recommendation for the calculation of earnings per share. Essentially it seats out its arguments on the tax treat. ment of profits on a current Society's leaning towards the CCA approach itself has been a survey of analysts earlier this year confirmed — albeit on a very low response rate — that they accept the current easy standard SSAP 16 including the gearing adjustment.
In calculating historic cost

earnings per share the analysis have rejected the SSAP 15 basis of accounting for deferred tax. preferring to charge notional "full" tax. The argument has been that historic cost figures should not receive the benefit of inflation-related tax allow

Now SSAP 15 also gets short shrift when it comes to current cost calculations: current cost earnings, say the analysts, should not suffer any deduction at all for deferred tax. The argument is that the treatment of tax allowances is not con-sistent between companies, and also that the allowances may vary erratically from year to year. There being no practicable alternative to inclusion or exclusion of the entire provision, the decision has been taken to adopt a "no deferral

"full distribution" basis, which makes allowance for the fact that advance corporation tax is in a marked upward revision in not recoverable on the distribu-the previous week's estimates, tion of foreign income and pointed the way towards further untaxed UK income.

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